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SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM EPA CONTRACT EP-W-05-042

> 21 August 2013 20114-081-998-0850-49 DC No. A-6828

Ms. Martha Bosworth U.S. EPA Region I - New England Emergency Planning & Response Branch 5 Post Office Square, Suite 100 Mail Code OSRR07-2 Boston, Massachusetts 02109-3912

Subject:

Case No. 43392; SDG No. A4A90

ChemTech Consulting Group (Chem)

Jard Company Inc Bennington, Vermont

AROCLOR: 11/Aqueous/A4A90-A4A99, A4B00

(Field Duplicates A4A97/A4B00)

6/Aqueous Equipment Blanks/A4B01, A4B02, A4B05-A4B08

2/Aqueous PEs/A4B03, A4B04

CERCLIS No. VTD048141741

TDD No. 12-10-0008, Task No. 0850-49

Dear Ms. Bosworth:

A Tier II validation was performed on the organic analytical data for 11 aqueous samples and six aqueous equipment (rinsate) blanks collected by WESTON START at the Jard Company Inc site in Bennington, Vermont, and for two PE samples obtained from EPA Region I. The samples were analyzed under CLP following SOW SOM01.2 as low/medium level for Aroclor compounds. The data were evaluated as Tier II level in accordance with the "Region I EPA-NE Data Validation Functional Guidelines for Evaluating Environmental Analyses" dated December 1996, and the USEPA CLP National Functional Guidelines for Superfund Organic Methods, and were based on the following parameters:

- Overall Evaluation of Data and Potential Usability Issues.
- Data Completeness.
- Preservation and Technical Holding Times.
- GC/MS and GC/ECD Instrument Performance Checks.
 - IC and CC.
- Blanks.
- Surrogate Compounds.
- NA IS.
- MS/MSD.
- Field Duplicates.
- Sensitivity Check (MDL Study or LFB). NA
- PE Samples/Accuracy Check.

Ms. Martha Bosworth 21 August 2013 Page 2

• Target Compound Identification.

* • Sample Quantitation and Reported Quantitation Limits.

NA • TICs.

* • SVOC and PEST/PCB Cleanup.

* • System Performance.

NA • SEDD/ADR.

* = No qualifications will be applied based on this parameter.

Table I summarizes overall evaluation of the data with reference to the DQO and potential usability issues. Qualified data are summarized in Data Summary Table 1.

Overall Evaluation of Data and Potential Usability Issues

See Table I for overall evaluation of data and potential usability issues.

Initial and Continuing Calibration

Compounds that did not meet RSD criteria in the IC, %D criteria in the CC, and/or RRF criteria in the IC or CC are summarized in the following tables:

AROCLORS:

Compound	CV 1/3/13
Aroclor-1254 (peak 2)	× (1)
Samples Affected:	A4A93, A4A93DL, A4A94, A4A94DL, A4A95, A4A95DL, A4A96, A4A96DL, A4A97, A4B00, A4B05-A4B08

Actions:

 \times = %RSD >20 or %D >15. Estimate (J) all positive results.

(1) = Criteria failed on Column No. 1.

Sample results will be qualified as indicated above.

PE Samples/Accuracy Check

The criteria used by START for qualification of sample data based on the PE sample results are as follows:

	Action		
PE Score	Non-Detects	Positive Results	
In Window	Accept	Accept	
Warning Low/High	Accept	Accept	
Action Low	Reject (R)	Estimate (J)	
Action High	Accept	Estimate (J)	
TCL Misses	Reject (R)	Varies	
TCL Contaminants	Accept	Varies	
TIC Misses	Varies	Varies	
TIC Contaminants	Varies	Varies	

All non-compliant PE scores were investigated by checking raw data, calculations, calibrations, possible matrix interferences, and blank contamination. Unless otherwise noted, all results reported by the laboratory were found to be correct, based on the data generated by the laboratory.

The laboratory properly identified and quantified the aqueous Aroclor-1254 PE sample (A4B03, PE No. AA3325). No qualifications were applied.

The laboratory properly identified and quantified the aqueous Aroclor-1242 PE sample (A4B04, PE No. AA2555). No qualifications were applied.

Target Compound Identification

The dual column correlation did not meet %D confirmation criteria for the following Aroclor compounds:

Sample	Compound	% D	Action
A4A96	Aroclor-1242	38.8	J
A4A96DL	Aroclor-1242	40	J

Actions:

Estimate results when %D >25 but <100 for pesticides or %D >25 but <500 for PCBs.

R = Reject results when D > 100 for pesticides or D > 500 for PCBs.

U = Qualify result as undetected at the CRQL when %D >100 for pesticides or %D >500 for PCBs, and both results are less than the CRQL.

Sample results have been qualified as indicated above.

Please contact the undersigned at (978) 552-2100 if you have any questions or need further information.

Very truly yours,

WESTON SOLUTIONS, INC. Region I START

William W. Mahany Principal Project Scientist

John Burton Lead Chemist

email cc:

Jennifer Feranda (CLP PO - Region II) - DV Letter w/Data Tables, and ORDA Form only -

Feranda.jennifer@epa.gov

Attachments:

Table I: Overall Evaluation of Soil Data

Data Summary Key Acronym List Data Summary Table 1

DV Worksheets

PE Sample Score Reports (included in DV worksheets)

Field Sampling Notes (including a copy of sampler's COC Records)

CSF Audit (DC-2 Form) - Evidence Audit Photocopy (Including CSF Receipt/Transfer Form)

DQO Summary Form

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TABLE I

JARD COMPANY INC Case No. 43392; SDG No. A4A90

Overall Evaluation of Aqueous Data

AROCLORs						
DQO (list all DQOs)	Sampling and/or Analytical Method Appropriate Yes or No	Measurer Analytical Error	ment Error Sampling Error*	Sampling Variability**	Potential Usability Issues	
1. Collect ground water samples from previously installed monitoring wells on and off the property for PCB (Aroclor) analysis, to document potential contamination in the groundwater associated with source areas located on the property.	Analytical Method: Yes, SOM01.2 Sampling Method: Yes, Bladders, Peristaltic.	Refer to qualifications in attached Data Summary Table 1.	Refer to qualifications in attached Data Summary Table 1.		None.	

- * The evaluation of "sampling error" cannot be completely assessed in data validation.
- ** Sampling variability is not assessed in data validation.

DATA SUMMARY KEY ORGANIC DATA VALIDATION

J The associated numerical value is an estimated quantity. R The data are unusable (compound may or may not be present). Resampling and reanalysis are necessary for verification. The R replaces the numerical value or SQL. IJ The compound was analyzed for, but not detected. The associated numerical value is the SQL or the adjusted SQL. UJ The compound was analyzed for, but not detected. The associated numerical value is the estimated SQL. EB The compound was identified in an aqueous EB that was used to assess field contamination associated with soil/sediment samples. TB The compound was identified in an aqueous TB that was used to assess field contamination associated with soil/sediment samples. BBThe compound was identified in an aqueous BB that was used to assess field contamination associated with soil/sediment samples.

ACRONYM LIST ORGANIC DATA VALIDATION

AQ	aqueous	SC
AQ FB	aqueous field blank	S/3
BB	Bottle Blank	S/S
B/N		
	base/neutral compound	ST
°C	degrees Celsius	
CC	Continuing Calibration	Ĭ2
CCV	Continuing Calibration	SV
	Verification	TE
CLP	Contract Laboratory Program	TC
COC	Chain-of-Custody record	TI
COR	Contracting Officer Representative	TI
CRQL	Contract Required Quantitation	TF
01.02	Limit	V
CSF	Complete SDG File	W.
%D		ΨΨ.
	percent difference	
DAS	Delivery of Analytical Services	
DMC	Deuterated Monitoring Compound	
DQO	Data Quality Objective	
DV	Data Validation	
DW	drinking water	
EB	Equipment Blank	
EPA	Environmental Protection Agency	
GC/ECD	Gas Chromatograph/Electron	
CC/LCD	Capture Detector	
GC/MS	Gas Chromatograph/Mass	
GC/MS		
CM	Spectrometry	
GW	groundwater	
IC	Initial Calibration	
IS	Internal Standard	
kg	kilogram	
L	liter	
LCS	Laboratory Control Sample	
LFB	Laboratory Fortified Blank	
MDL	Method Detection Limit	
μg	microgram	
MS	Matrix Spike	
MSD	, -	
	Matrix Spike Duplicate	
NA	Not Applicable	
ND	non-detected result	
ng	nanogram	
NERL	New England Regional Laboratory	
OSC	On-Scene Coordinator	
ORDA	Organic Regional Data	
	Assessment	
PAH	polynuclear aromatic hydrocarbon	
PCB	polychlorinated biphenyl	
	compound	
PEST/PCB	pesticide/polychlorinated biphenyl	
1201/102	compound	
PE	Performance Evaluation	
Pos	positive result	
QC	Quality Control	
%R	percent recovery	
RPD	Relative Percent Difference	
RRF	Relative Response Factor	
RSD	Relative Standard Deviation	
SDG	Sample Delivery Group	
SOW	Statement of Work	

HRS Reference #74

QL /S Sample Quantitation Limit soil/sediment /S (m) soil/sediment medium level TART Superfund Technical Assessment and Response Team semivolatile organic compound VOC W surface water В Trip Blank Target Compound List CL DD Technical Direction Document ΊC Tentatively Identified Compound Traffic Report R OC volatile organic compound Weston Solutions, Inc. VESTON

SITE: JARD COMPANY INC CASE: 43392 SDG: A4A90

LABORATORY: CHEMTECH

CONSULTING GROUP

DATA SUMMARY TABLE 1 AROCLOR AQUEOUS ANALYSIS μg/L

					·				
	SAMI	PLE NUMBER	A4A90	A4A91	A4A92	A4A93	A4A94	A4A95	A4A96
	SAMPL	E LOCATION	GW-01	GW-02	GW-03	GW-04	GW-05	GW-06	GW-07
	STATIO	N LOCATION	JCW-001	JCW-002	JCW-003	JCW-004	JCW-005	JCW-006	JCW-007
	LABORATO	ORY NUMBER	E1725-01	E1725-02	E1725-03	E1725-14	E1725-15	E1725-16	E1725-17
COMPOUND	MDL	CRQL							
Aroclor-1016	0.08	1.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 · U
Arocior-1221	0.29	1.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1232	0.03	1.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1242	0.03	1.0	1.0 U	1.0 U	1.0 U	93 *	180 *	98 *	26.0 *J
Aroclor-1248	0.02	1.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Arocior-1254	0.05	1.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1260	0.04	1.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1262	0.2	1.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1268	0.06	1.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	DILUT	ION FACTOR	1.0	1.0	1.0	1.0 / 20*	1.0 / 20*	1.0 / 20*	1.0 / 5.0*
	DA ⁻	TE SAMPLED	4/2/2013	4/2/2013	4/2/2013	4/2/2013	4/2/2013	4/2/2013	4/2/2013
	DATE	EXTRACTED	4/5/2013	4/5/2013	4/5/2013	4/5/2013	4/5/2013	4/5/2013	4/5/2013
	DAT	E ANALYZED	4/5/2013	4/5/2013	4/5/2013	4/82013	4/8/2013	4/8/2013	4/8/2013
	SAMPLE	VOLUME (mL)	1000	1000	1000	1000	1000	1000	1000

NOTES: μ g/L = micrograms per Liter

MDL= Method Detection Limit

CRQL = Contract Required Quantitation Limit

U = Value is Non-Detected.

UJ = Value is Non-Detected, and Detection Limit is Estimated.

J = Value is Estimated.

* = Reported value is from diluted analysis.

mL = milliLiter

SITE: JARD COMPANY INC CASE: 43392 SDG: A4A90 LABORATORY: CHEMTECH

CONSULTING GROUP

DATA SUMMARY TABLE 1 AROCLOR AQUEOUS ANALYSIS µg/L

COMPOUND	SAMPL STATIO	PLE NUMBER LE LOCATION IN LOCATION DRY NUMBER CRQL	A4A97 GW-08 JCW-008 E1725-04	A4A98 GW-09 JCW-009 E1725-05	A4A99 GW-10 JCW-010 E1725-06	A4B00 GW-11 JCW-011 E1725-09	A4B01 RB-20 JCW-012 E1725-10	A4B02 RB-01 JCW-013 E1725-11	A4B05 RB-02 JCW-016 E1725-18
Aroclor-1016	0.08	1.0	1.0 U	.1.0 U					
Aroclor-1221	0.29	1.0	1.0 U						
Aroclor-1232	0.03	1.0	1.0 U						
Aroclor-1242	0.03	1.0	9.0	1.0 U	1.0 U	9.4	1.0 U	1.0 U	1.0 U
Aroclor-1248	0.02	1.0	1.0 U						
Aroclor-1254	0.05	1.0	1.0 U						
Aroclor-1260	0.04	1.0	1.0 U						
Aroclor-1262	0.2	1.0	1.0 U						
Aroclor-1268	0.06	1.0	1.0 U						
	DILUT	ION FACTOR	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	DA:	TE SAMPLED	4/2/2013	4/2/2013	4/2/2013	4/2/2013	4/2/2013	4/1/2013	4/3/2013
	DATE	EXTRACTED	4/5/2013	4/5/2013	4/5/2013	4/5/2013	4/5/2013	4/5/2013	4/8/2013
	DAT	E ANALYZED	4/8/2013	4/5/2013	4/5/2013	4/8/2013	4/5/2013	4/5/2013	4/8/2013
	SAMPLE'	VOLUME (mL)	1000	1000	1000	1000	1000	1000	1000

NOTES: μg/L = micrograms per Liter

MDL= Method Detection Limit

CRQL = Contract Required Quantitation Limit

U = Value is Non-Detected.

UJ = Value is Non-Detected, and Detection Limit is Estimated.

J = Value is Estimated.

* = Reported value is from diluted analysis.

mL = milliLiter

SITE: JARD COMPANY INC CASE: 43392 SDG: A4A90 LABORATORY: CHEMTECH

CONSULTING GROUP

DATA SUMMARY TABLE 1 AROCLOR AQUEOUS ANALYSIS μg/L

	0	N E MIMBES!		1/00-	14000			
		PLE NUMBER	A4B06	A4B07	A4B08			
		E LOCATION	RB-03	RB-04	RB-05			
	STATIO	N LOCATION	JCW-017	JCW-018	JCW-019			
	LABORATO	DRY NUMBER	E1725-19	E1725-20	E1725-21			
COMPOUND	MDL	CRQL						
,						·		
Aroclor-1016	0.08	1.0	1.0 U	1.0 U	. 1.0 U			
Aroclor-1221	0.29	1.0	1.0 U	1.0 U	1.0 U			
Aroclor-1232	0.03	1.0	1.0 U	1.0 U	1.0 U			
Aroclor-1242	0.03	1.0	1.0 U	1.0 U	1.0 U			
Aroclor-1248	0.02	1.0	1.0 U	1.0 U	1.0 U			
Aroclor-1254	0.05	1.0	1.0 U	1.0 U	1.0 U			
Aroclor-1260	0.04	1.0	1.0 U	1.0 U	1.0 U			
Aroclor-1262	0.2	1.0	1.0 U	1.0 U	1.0 U			
Arocior-1268	0.06	1.0	1.0 U	1.0 U	1.0 U			
8-								
	DILUT	ION FACTOR	1.0	1.0	1.0		· ·	
	DATE SAMPLED		4/4/2013	4/4/2013	4/5/2013			
	DATE	EXTRACTED	4/8/2013	4/8/2013	4/8/2013	* .		
	DAT	E ANALYZED	4/8/2013	4/8/2013	4/8/2013			
	SAMPLE '	VOLUME (mL)	1000	1000	1000	,		

NOTES: μ g/L = micrograms per Liter

MDL= Method Detection Limit

CRQL = Contract Required Quantitation Limit

U = Value is Non-Detected.

UJ = Value is Non-Detected, and Detection Limit is Estimated.

J = Value is Estimated.

* = Reported value is from diluted analysis.

mL = milliLiter

REGION I, EPA-NE ORGANIC REGIONAL DATA ASSESSMENT (ORDA)*

Case No.: 43391		Site Name: JA	RD	
SDG No.: A4A90		No. of Samples/Mat	rix: 17/ A	Q
Lab Name: Chemtech Consolting Group		Validation Contracto	WESTON	:
SOW#/Contract#: SOM01.2		Validator's Name:	J. Burto	^
EPA-NE DV Tier Level:Tier II		Date DP Rec'd by E	PA-NE:	
TPO/PO: **ACTION FYI		DV Completion Date	e: <i>5/\/\</i> 13	
ANALYTICAL DATA QUA	ALITY SU	IMMARY	•	
1. Preservation and Contractual Holding Times: 2. GC/MS / GC/ECD Instrument Performance Check: 3. Initial Calibration: 4. Continuing Calibration: 5. Blanks: 6. DMCs or Surrogate Compounds: 7. Internal Standards: 8. Matrix Spike/Matrix Spike Duplicate: 9. Sensitivity Check: 10. PE samples - Accuracy Check: 11. Target Compound Identification: 12. Compound Quantitation and Reported QLs: 13. Tentatively Identified Compounds: 14. Semivolatile Cleanup/Pesticide/PCB Cleanup: 15. Data Completeness: 16. Overall Evaluation of Data: 0 = Data had no problems or were qualified due to minor of m = Data were qualified due to major contractual problems z = Data were rejected as unusable due to major contractual	S.		PEST NA NA NA	NA NA
Action Items (z items):				
			41 MARKATAN	
Areas of Concern (m items):				
Comments:				
			AM 200 A STUDY OF CO.	

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*This form assesses the analytical data quality in items of errors and/or non-contractual analytical issues that affect of	
** Check "ACTION" only if contractual defects resulted in	reduced payment/data rejection recommendations.
Validator: Sutto	Date:

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Site Name:	TARD	
TDD No.:	12-10-0008	
Task No.:	0850	

REGION I ORGANIC DATA VALIDATION

The following data package has been validated:		
Lab Name: Chemtech Consulting	SOW #/Contract #:	SOM01.2
Case No.: 43392	Sampling Dates:	4/1-4/5/13
SDG No.: 44490	Shipping Dates:	4/3/13, 4/5/13
No. of Samples/Matrix: 17/AQ	Date Rec'd by Lab:	4/4/13, 4/6/13
Traffic Report Sample Nos: A4A90 - A4A	199, A4B00-A4	BO2, A4BO5-A4BO
Trip Blank No.: NA Equipment Blank No: AYBOL, AYBOL, A Field Duplicate Nos: (AYA97/AYBOO) PE Nos: AYBO3, AYBOY	4B05-A4B08	
The Region I, EPA - NE Data Validation Functional Guideline revision 12/96 was used to evaluate the data and/or approved Guidelines were used to evaluate the data and are attached to criteria from EPA approved QAPjP or amendment to the QAP	d modifications to the EPA - o this cover page: (attached	NE Functional
A Tier II or a Tier III evaluation was used to validate the data. was used, then identify samples, parameters, etc. that receives	If a Tier II validation with a ped partial Tier III validation:	partial Tier III
The data were evaluated based upon the following parameter	rs:	
 Overall Evaluation of Data Data Completeness (CSF Audit - Tier I) Preservation and Technical Holding Times GC/MS and GC/ECD Instrument Performance Check Initial and Continuing Calibrations Blanks Surrogate Compounds Internal Standards Matrix Spike/Matrix Spike Duplicate 	 Field Duplicates Sensitivity Check PE Samples/Accura Target Compound I Compound Quantita Quantitation Limits TICs Semivolatile and Pe System Performand 	dentification ation and Reported sticide/PCB Cleanup
Region I Definitions and Qualfiers:		
A - Acceptable Data J - Numerical value associated with compound is an estimate R - The data are rejected as unusable. The R replaces the nu U - Compound not detected at that numerical sample quantita UJ - The sample quantitation limit is an estimated quantity. TB, EB - Compound detected in aqueous trip blank or aqueous	umerical value or sample qu ation limit.	,
Validator's Name: T. Buston Com	ipany Name: <u>WESTON</u>	Phone Number: <u>978-552-2100</u>
Date Validation Started: 4/29/13 D	ate Validation Completed:	5/1/13

EPA - NE

Data Validation Worksheet Cover Page - Page 2

Check if all criteria are met and no hard copy worksheet provided. Indicate NA if worksheet is not applicable to analytical method. Note: There is no standard worksheet for System Performance, however, the validator must document all system performance issues in the Data Validation Memorandum.

VOA/SV Worksheets:

	VOA/SV-Pest/PCB VOA/SV-Pest/PCB-I VOA/SV-II VOA/SV-III VOA/SV-IV VOA/SV-Pest/PCB-V-A VOA/SV-Pest/PCB-V-B VOA-VI SV-VI VOA/SV-Pest/PCB-VIII VOA/SV-Pest/PCB-IX VOA/SV-Pest/PCB-X VOA/SV-Pest/PCB-XI VOA/SV-Pest/PCB-XII VOA/SV-Pest/PCB-XIII VOA/SV-Pest/PCB-XIII VOA/SV-Pest/PCB-XIII VOA/SV-Pest/PCB-XIII VOA/SV-Pest/PCB-XIII VOA/SV-XIV VOA/SV-XV TABLE II - WORKSHEET	COMPLETE SDG FILE (CSF) AUDIT PRESERVATION AND HOLDING TIMES GC/MS INSTRUMENT PERFORMANCE CHECK (TUNING) INITIAL CALIBRATION CONTINUING CALIBRATION BLANK ANALYSIS BLANK ANALYSIS VOA SURROGATE SPIKE RECOVERIES SV SURROGATE SPIKE RECOVERIES INTERNAL STANDARD PERFORMANCE MATRIX SPIKE/MATRIX SPIKE DUPLICATE FIELD DUPLICATE PRECISION SENSITIVITY CHECK ACCURACY CHECK/ PE SCORE SHEETS TARGET COMPOUND IDENTIFICATION SAMPLE QUANTITATION TENTATIVELY IDENTIFIED COMPOUNDS SEMIVOLATILE CLEANUP OVERALL EVALUATION OF DATA	@ WA WA WA WA NA NA NA RA WA NA WA NA WA NA WA WA WA *
Pest/ARO	Worksheets:		
	VOA/SV-Pest/PCB VOA/SV-Pest/PCB-II Pest/PCB-IIIA Pest/PCB-IIIC Pest/PCB-IIID Pest/PCB-III Pest/PCB-III Pest/PCB-IV VOA/SV-Pest/PCB-V-A VOA/SV-Pest/PCB-V-B Pest/PCB-VII VOA/SV-Pest/PCB-VIII VOA/SV-Pest/PCB-IX VOA/SV-Pest/PCB-X VOA/SV-Pest/PCB-X VOA/SV-Pest/PCB-XI Pest/PCB-XII VOA/SV-Pest/PCB-XIII TABLE II - WORKSHEET	COMPLETE SDG FILE (CSF) AUDIT PRESERVATION AND HOLDING TIMES GC/ECD INSTRUMENT PERFORMANCE CHECK- RESOLUTION GC/ECD INSTRUMENT PERFORMANCE CHECK- RETENTION TIMES GC/ECD INSTRUMENT PERFORMANCE CHECK- ACCURACY CHECK OF INITIAL CALIBRATION GC/ECD INSTRUMENT PERFORMANCE CHECK- PESTICIDE DEGRADATION INITIAL CALIBRATION CONTINUING CALIBRATION BLANK ANALYSIS BLANK ANALYSIS SURROGATE COMPOUNDS: SPIKE RECOVERIES AND RETENTION TIME SHIFT PESTICIDE CLEANUP MATRIX SPIKE/MATRIX SPIKE DUPLICATE FIELD DUPLICATE PRECISION SENSITIVITY CHECK ACCURACY CHECK/ PE SCORE SHEETS COMPOUND IDENTIFICATION SAMPLE QUANTITATION OVERALL EVALUATION OF DATA	PA V NA NA @ *
	I certify that all criteria were met		ys included V Memo
	Signature:	Name: John Bur	ton

Date:

COMPLETE SDG FILE (CSF) AUDIT

Organic Fractions:	SD6:	AHA90	•
Missing Information		Date Lab Contacted	<u>Date Received</u>
None			
i a constant a constan	-		
			THE CONTRACT OF THE CONTRACT O
	WE I THE		
·			
100 mm/mm/mm.			
ON THE OUTER DOLLAR AND HELD AND A STREET	7 T T T T T T T T T T T T T T T T T T T		
TVP OF THE REAL PROPERTY OF THE PARTY OF THE			P. (44.5)
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			· · · · · · · · · · · · · · · · · · ·
Validator:	Bento	· · · · · · · · · · · · · · · · · · ·	Date: 571/13
()			

	100
/alidator:	& Opinto

G. Hornok Company: WESTON Contacted: Yes Date: No

1. PRESERVATION AND HOLDING TIMES

Documented:

Cooler

Circle sample numbers with exceeded technical holding times or omitted preservation. List all required preservation codes and circle omitted preservation codes.

Circle all exceeded technical holding times.

Identify extraction technique after "# of Days"/(*Extraction Code).

						PE	ST					Al	₹0		
-					# of Days			# of Days		Î	# of Days			# of Days	
Sample No.		Pres.	Date	Date	from Samp.	*Ext.	Date	from Ext.		Date	from Samp.	*Ext.	Date	from Ext.	1 .
(TR No.)	Matrix	Code	Sampled	Extracted	to Ext.	Code	Analyzed	to Anal.	Action	Extracted	to Ext.	Code	Analyze	d to Anal.	Action
AHA90	AQ	1.3	4/2/13	K						4/5/13	3	sep	4/5/12	, 0	None
AYA91			4/2/13							1	١	J'		0	
AHA92			1								and the second		7	0	
A4A93		. 8								41513			4/8/13	3	
A4 894				`						, i				1	
AMARS										1	j				
AYA96										J. J.	1		1		
144497						-				*			<u> </u>	-	
A4A8										41,5/13			4/5/13	, O	
AHATT										1		·	1	0	
AYBOO										4513			4/8/13	3	<u> </u>
AUBOI	AGEB		14.							4/5/13			45/13	0	
AUBOZ			4VV13							4			l al		
A4B05			4/3/13		,		\			4/8/13			4/8/13	<u> </u>	
AUBOL			44/3								4				
A4007			1111								- 4				
A4Box	<u> </u>	- 1	4/5/13							1 1 2			<u> </u>		
A4B03	PE	<u> </u>	4/3/13							4/5/13			4/5/13	>	
Aubon	J		ا							1			├ ─└	- V	
			 												
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Preservation Code:

- 1. Cool @ 4°C (± 2°C)
- 2. Preserve with HCl to ≤ pH 2.
- 3. Protect from light.
- 4. Freeze.
- 5. Room temperature (avoid excessive heat).
- 6. Encore sampler (48 hour hold time).

*Extraction Code:

L/L - Liquid/Liquid

SON - Sonication

SEP - Separatory funnel

SOX - Soxhlet

SPE - Solid Phase Extraction

Action Code:

J - Estimate (J) detected values.

UJ - Estimate (UJ) non-detected values.

R - Reject (R) non-detected values.

Matrix Codes:

AQ - Aqueous

S/S - Soil/Sediment

AQ FB - Aqueous Field Blank

EPA-NE - Data Validation Worksheet VOA/SV - Pest/ARO - V

V. Rinsate Blank Tabulation - list the applicable rinsate (equipment) blanks below:

Rinsate Blank No.	Sample No.	Equipment Rinsed to Generate the RB	Matrix Applies to:
RB-	AYBOI	hladder pumps	GW-01,6W-03,
RB-			GW-05, GW-07, GW-08
RB-			660-09-6W-10 CW-11
RB-			77
RB-			
RB-		,	

Matrix Codes: SS - surface soil

SD - sediment SO - source soil SB - soil boring GW - groundwater DW - drinking water SW - surface water

Note: Apply each RB only to the matrix to which it corresponds. For example, apply the hand auger RB to the soil samples, but not to the surface water samples.

If more than one hand auger/soil sample RB was collected, the RBs may be batched and the highest hit from the batch used to determine the action levels. However, if one RB exhibits an unusual amount of contamination, apply this RB to only the associated samples. Do not batch this RB and apply to all samples of the same matrix.

Validator:

EPA-NE -	Data Validation Workshee
VOA/SV -	Pest/ARO - V- A

V. BLANK ANALYSIS - list the blank contamination found in the laboratory blanks.

•	_
Concentration Le	vel Low or Medium

Date:

Sampler: G. Hornok Company: WESTON Contacted	: Yes No
--	----------

1. Laboratory: Method, Storage, and Instrument Blanks

Date	Date	VOC, SVOC,		Sample	Blank	Instrument		Conc.
Extracted	Analyzed	or P/PCB	Matrix	No.	Туре	or Column	Compound	(units)
4/5/13	4/5/13	PCB	AQ	ABLK45	Method	ECOLO	2	
4/8/13	4/8/13	PCB		ABLK47	Method	1	ND	
	3/25/13		T	ABLK 47 AINKOI	in Stroment		20	
	4/5/13			AT ALKIS				
	4/5/13			ATALK14	-			
	4/6/13			ATBLKI4 ATBLKIS				
-	4/8/13			ATBLKIR				
			1	ATALK 19		4	4	
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Val	ida	tor.

V Rutor

Date: 4/29/13

PEST/ARO Method Blanks: If %D is >100% (PEST) or >500% (ARO), then not a positive hit and therefore not a contaminant.

PEST Instrument Blanks: If not present on both columns, then not a positive and therefore not a contaminant.

Do not use blanks used to clean the instrument after a contaminated sample to set Action Levels.

EPA-NE -	Data Validation Worksheet
VOA/SV -	Pest/ARO - V- A

V. BLANK ANALYSIS - list the blank contamination found in the field blanks.

Concentration Level: Low or Medium

Sampler:	G. Hornok	Company: WESTON	*	Contacted: Yes No	Date:

2. Field: Equipment (Rinsate) and Trip Blanks.

Date Extracted	Date Analyzed	VOC, SVOC, or P/PCB	Matrix	Sample No.	Blank Type	Instrument or Column	Compound	Conc. (units)	Qualifier due te-Lab blanks
45/13	4/5/13	PCB	AQ	AYBOI	Equipment	ECD_O	ND	·	(none)
				AHROL	1 1		i		
4/8/13	48713	Marie Carlo		A4802 A4805 A4806					
i	,			AY BOL				*	
				A4B07	·				
		ال		A41208	L L	4	4		
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Validator:

Benton

Date: 4/29/13

PEST/ARO Field Blacks: If %D is >100% (PEST) or >500% (ARO) then not a positive hit and therefore not a contaminant. Use the last column to evaluate laboratory blank contamination on EB and TB contamination. If result qualified as undetected (U) due to laboratory contamination, then this result can not be used to apply an EB or TB qualifier.

EPA-NE - Data Validation Worksheet VOA/SV - Pest/ARO - V- B1

V. BLANK ANALYSIS

3. Blank Actions:

Actions Apply to Aqueous (AQ) Samples

Compound	Blank with Max. Conc.	Date Blank Sampled/ Analyzed	Max. Conc. (ug/L)	Action Level (ug/L)	Sample QL (ug/L)	Samples Affected	Action	
Blank ND	Lab					AQ FB	U	Applicable Lab Blanks Include:
	Lab					11	U	MB - Method Blanks
	Lab					"	· U	HB - Holding Blanks
	Lab					"	U	IB - Instrument Blanks
	Lab					"	U	SB - Storage Blanks
	Lab					11	U	CUB- Cleanup Blank
	Lab					"	U	· ·
	Lab					"	U	AQ FB Include:
	Lab					H	U .	Equip - Equipment Blank (rinsate)
	Lab					"	U	Trip - Trip Blank
	Lab					#	U	
	Lab					"	U .	AQ Field Samples Include:
	Lab						U	SW - Surface Waters
	Lab					II .	Ü	GW - Groundwaters
	Lab					"	U	MW - Monitoring Wells
	Lab					, II	U	DW - Drinking Waters
	Lab		L			. 11	U	
Blanks ND	Lab, Equip, or Trip*					AQ Field Samples	U	
	Lab, Equip, or Trip*					(SW, GW,	U	Comments:
	Lab, Equip, or Trip*					MW, DW, etc.)	U	
	Lab, Equip, or Trip*					11	U	
	Lab, Equip, or Trip*					"	U	
	Lab, Equip, or Trip*					. "	U	
	Lab, Equip, or Trip*					"	U	
	Lab, Equip, or Trip*					IF	U	
	Lab, Equip, or Trip*					11	U	
	Lab, Equip, or Trip*					. 11	U	
	Lab, Equip, or Trip*		L			11	U	
	Lab, Equip, or Trip*					. 11	U	
	Lab, Equip, or Trip*					"	U	
	Lab, Equip, or Trip*					. "	U	
	Lab, Equip, or Trip*					"	U	

* - Circle one

Validator:	10	Butto
	$\overline{}$	

Date: 4/39/13

Page 21 of 61

EPA-NE - Data Validation Worksheet VOA/SV - Pest/ARO - V- B2

V. BLANK ANALYSIS

3. Blank Actions:

Actions Apply to Soil/Sediment (S/S) or Solid Samples

Compound Max. Conc. Analyzed Conc. (ug/kg) (ug/kg) Affected Action		Blank with	Date Blank Sampled/	Max.	Action Level	Sample QL	Samples		
Lab, NaHSO4, or MeOH*	Compound							Action	
Lab, NaHSO4, or MeOH*		Lab. NaHSO4. or MeOH*			1		S/S Samples	U	Applicable Lab Blanks Include:
Lab, NaHSOd, or MoOH*							H	U	MB - Method Blanks
Lab, NaHSO4, or MeOH*							ii .	U	HB - Holding Blanks
Lab, NaHSO4, or MeOH* " U SB - Storage Blanks CUB- Cleanup Blank CuB- Cleanup Blank							11	· U	IB - Instrument Blanks
Lab, NaHSO4, or MeOH*							ıı ı	U	SB - Storage Blanks
Lab, NaHSO4, or MeOH*		Lab, NaHSO4, or MeOH*						U	CUB- Cleanup Blank
Lab, NaHSO4, or MeOH*		Lab, NaHSO4, or MeOH*					и	U	
Lab, NaHSO4, or MeOH*		Lab, NaHSO4, or MeOH*					ii .	U	
Lab, NaHSO4, or MeOH*		Lab, NaHSO4, or MeOH*					II .	U	FB Include:
Lab, NaHSO4, or MeOH*		Lab, NaHSO4, or MeOH*					п	U [*] .	
Lab, NaHSO4, or MeOH*		Lab, NaHSO4, or MeOH*						U	
Lab, NaHSO4, or MeOH*		Lab, NaHSO4, or MeOH*		-					
Lab, NaHSO4, or MeOH*		Lab, NaHSO4, or MeOH*		-					MeOH - Methanol
Lab, NaHSO4, or MeOH*		Lab, NaHSO4, or MeOH*							
Lab, NaHSO4, or MeOH*									
Lab, NaHSO4, or MeOH*		Lab, NaHSO4, or MeOH*							•
Lab, NaHSO4, or MeOH*		Lab, NaHSO4, or MeOH*							
Comments: Comm		Lab, NaHSO4, or MeOH*	*						
Bunks Bor TB* None S/S Samples EB or TB* E		Lab, NaHSO4, or MeOH*					II .	U	
BB or TB* None " EB or TB* EB or T					(ug/L)				
EB or TB* EB or TB* None EB or TB* None EB or TB* EB or TB* EB or TB* None EB or TB* EB or TB* EB or TB* None EB or TB* EB or TB* EB or TB* None EB or TB* EB or TB* EB or TB* None EB or TB* EB or TB* EB or TB* None EB or TB* EB or TB* EB or TB* None EB or TB* EB or TB* EB or TB* None EB or TB* EB or TB* EB or TB* None EB or TB* EB or TB* EB or TB* None EB or TB* None EB or TB*	Blanke M	EB or TB*			None		S/S Samples		Comments:
EB or IB*		EB or TB*			None	-	н		
EB or TB*		EB or TB*			None				
EB or TB*		EB or TB*			None				
EB or IB*		EB or TB*			None				
EB or IB*		EB or TB*							
EB or TB*									
EB or TB*		EB or TB*							
EB or TB*									
EB or TB*									
EB or TB*									
FR or IR, Noue ED 01 IP									
EB or TB* None " EB or TB*									
		EB or TB*			None		. "	EB or TB*	•

* - Circle one

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EPA - NE - Data	Validation	Worksheet
VOA/SV - Pest/P	CB -XI	

XI. ACCURACY CHECK (Performance Evaluation Results) - List all analytes that are outside criteria.

SDG No.: <u>A4A90</u>

Case: 43392

Are more than one-half the PE analytes within criteria for each parameter?

Yes

No

Always submit this sheet and attach PE score sheets

PE Sample No.	Ampule No.	Parameter	Type of PE	Matrix	Analyte	Conc.	Region I EPA PE Scores*	Samples Affected	Action
A4B03	PE-AA3335	Aroclor	single blind	AQ	Acclor 1254	6.4	PASS		none
AyBoy	PE-AA2555	Araclor		L	Avoclor 1242	6,0	PASS		L
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^{*}For Region I PE indicate the Region I PE Score report result: Action High, Acion Low, TCL Miss, or TCL Contaminant.

Validator:

PES SCORING EVALUATION REPORT

PES AA3325

Rev: 1 EPA Sample No.: A4B03

Report Date: 04/26/2013

Page 1 of 1

Lab Name: Chemtech Consulting Group

Contract: EPW11030

Case No.: 43392

Lab Code: CHEM SAS/Client No.: NA

SDG No.: A4A90

Lab File ID: PO008358.D

Matrix: Water

Lab Sample ID: E1725-12

Date Analyzed: 04/08/2013

Date Received: 04/04/20132 Sample Wt./Vol. (g/mL): 1000.0 mL

Date Extracted: 04/05/2013

Decanted: N/A

% Moisture: NA

Injection Vol. (uL): 1.0

Extraction Type: SEPF

Conc. Extract Vol. (uL): 10000 pH: NA

Sulfur Cleanup: No

GPC Cleanup: No Dilution Factor: 1.0

Units: ug/L

Analysis Method: SOM01.2 Scoring Method: SOM01.2

Comments:

CAS No.	Analyte	Laboratory	Results	PES Evaluation		
		Concentration	Q			
11097-69-1	Aroclor-1254	6.4		PASS	Within Limits	
****	END Main Analytes	******	****	****	******	
****	END All Analytes	******	****	****	******	
				-		
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Property of U.S. Environmental Protection Agency - Score PES v1.12b

PES SCORING EVALUATION REPORT

PES AA2555

Rev: 1 EPA Sample No.: A4B04

Report Date: 04/26/2013

Page 1 of 1

Lab Name: Chemtech Consulting Group

Contract: EPW11030

Case No.: 43392

Lab Code: CHEM SAS/Client No.: NA

SDG No.: A4A90 Lab File ID: PO008359.D

Matrix: Water Date Received: 04/04/20132 Lab Sample ID: E1725-13 Date Extracted: 04/05/2013

Date Analyzed: 04/08/2013

Sample Wt./Vol. (g/mL): 1000 mL

% Moisture: NA

Decanted: N/A

Injection Vol. (uL): 1.0

Extraction Type: SEPF

Conc. Extract Vol. (uL): 10000

Sulfur Cleanup: No

GPC Cleanup: No Dilution Factor: 1.0

pH: NA

Analysis Method: SOM01.2

Scoring Method: SOM01.2

Units: ug/L

Comments:

CAS No.	Analyte	Laboratory	Results	PES Evaluation		
		Concentration	Q		• •	
53469-21-9	Aroclor-1242	6.0		PASS	Within Limits	
****	END Main Analytes	*******	****	****	*******	
****	END All Analytes	*******	****	****	******	
		-				
		 				
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VI. SURROGATE SPIKE RECOVERIES - PESTICIDES/PCBS

List the percent recoveries which do not meet the method QC acceptance criteria.

	TCX DCB			СВ	Act	tion
Sample No.	Column 1	Column 2	Column 1	Column 2	Detects	Non-detects
A4A93	524*	104	83	77	none	
A4A93 DL	764×	135	112	110	none	
AHA9H	3544	109	97	90	none	
AYAGYOL	485*	138	139	178	none	
A4A95	280*	151	103	95	none	
RYAPSOL	1207*	503*	492*	418*	none	
						1

TCX -	Tetrachloro-m	-xvlene
-------	---------------	---------

DCB - Decachlorobiphenyl

QC Limits:	30-150	30-1	50

Qualification of data:

- 1. No action is taken when a sample is analyzed at a dilution.
- 2. No action is required when only one of the four surrogates is outside the QC acceptance criteria and the recovery is > 10%.
- 1. Estimate (J, UJ) all positive and non-detected results if any two surrogates are < the QC acceptance criteria.
- 2. Estimate (J) all positive results if any two surrogates are > the QC acceptance criteria.
- 3. Reject (R) all non-detected results and estimate (J) all positive results if any one surrogate is < 10%.

Sample Results	One or more surrogates < 10%	Two or more surrogates 10% ≤ %R < LL	All surrogates LL ≤ %R ≤ UL	Two or more surrogates > UL
Detects	. J	J	Α	J .
Non-detects	R	UJ	Α	А

LL - Lower Limit

UL - Upper Limit

Validator

EPA - NE	- Data Va	lidation	Worksheets
Forms 7J,	7L, and 7	'N	

All Criteria Met				
	A 11	O-141 -	N A - 4	
	AII	C.riteria	IV/IAT	

III. PESTICIDE CONTINUING CALIBRATION

Continuing Calibration - PEM, INDC

List the compounds which did not meet the percent difference (%D) criteria of < 25% on either column (PEST), ≤ 15% (PCB).

			%	D		
	Date	Compound	Column I	Column II	Samples Affected	
2-10	0 4/8/13	Arlasypka	19.2	A.8	A4803 A4804 A4800 A 4A9	7. A4BOS-
		*			A4806, -A4808, A4A93, A4A9.	OL
					AHA94 AHA970L AHA95 A41	95 NC
		American Commission Co			A4496 A449606	
*	·		<u> </u>	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		

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Qualification of data:

Estimate	(J)	all	positive	results	when	the '	%D	>25%	Pest,	or ≥	15%	PCB.	No	qualification	n is	requ	ired t	for no	n-det	ected	results.
----------	-----	-----	----------	---------	------	-------	----	------	-------	------	-----	------	----	---------------	------	------	--------	--------	-------	-------	----------

Validator:

Courton

Case: <u>43392</u> SDG: **A4A90** All Criteria Met _____
Site Name: _____ARD_____

AYAGEDL	Proclos-1247	27	110			
AYAGLDL		<i>L.</i> I	40	38.80		
1111111111	Aroclar-1242 Aroclar-1242	2.6	39	40.0	COMPANY.	
	1.100.100				- 4	
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Use Comments section to list compounds that went to "U" due to Blank Contamination Actions or Co-elution with Aroclors.

Actions:

- J Estimate results when %D > 25% but \leq 100% for pesticides or %D >25% but \leq 500% for PCBs.
- J@ %D >25% but ≤100% for pesticides or %D > 25% but ≤500% for PCBs. Previously qualified as estimated by laboratory due to quantitation below the quantitation limit. No further qualification is needed.
- R Reject results when %D >100 for pesticides or %D >500% for PCBs.
- U Qualify result as undetected at the CRQL when %D >100% for pesticides or %D >500% for PCBs and both results are < the CRQL.
- $\ensuremath{U^*}$ Report the non-detected result from the diluted analysis.
- U^ Compound not confirmed by GC/MS. Raise detection limit to reported concentration.
- DL Report the result from the diluted analysis.

Validator: _______

TDD No. 01-12-10-0008 Logbook No. 01433-S Site Reassessment

107, MW-2, MW-3, MW-3D, MW-6, MW-6D, MW-9D, and MW-11. Based on the above information, START personnel planned to purge/develop monitoring wells MW-2, MW-3, MW-3D, MW-6, and MW-6D on 28 March 2013.

1630 hrs: START personnel marked properties located along Park Street and Bowen Road for Dig Safe notification. Following dig safe marking; START personnel secured and departed the site.

28 March 2013 (Thursday) - Site Reconnaissance, Well Development

Weather: Cloudy, high 30 to low 40 °F

0700 hrs: START members Kelly, Hornok, Bitzas, and Robinson arrived at the Jard property. START members completed calibration checks on air monitoring instrument; MultiRAE Plus, LEL, O₂, H₂S, CO, and PID meter. Background ambient readings: LEL = 0%; O₂ = 20.9%; H₂S = 0 ppm; CO = 0 ppm; and VOC = 0 ppm.

0715 hrs: START HSC Kelly reviewed the site HASP and conducted a tailgate health and safety meeting for all on-site START personnel, including reviews of the physical hazards (uneven terrain, trips-slips-falls, potential weather issues), chemical hazards [PCBs, non-aqueous phase liquids (NAPL) containing water], Radiation (Not encountered previously) and biological hazards (ticks, poison ivy, animals). Personnel reviewed and signed the HASP documentation, as needed.

0800 hrs: START personnel began purging/developing the selected ground water monitoring wells using a Wattera inertia pump system with dedicated tubing, check valve, and surge block at each well. START personnel established on site investigative derived waste (IDW) staging area along west side of Source Pile, on asphalt pavement area/driveway. Location will allow truck for IDW pickup to enter and exit site easily. Staging area consists of 55-gallon drums placed on wooden pallets.

0900 hrs: START PL. Kelly discussed with CORs Bosworth and Smith regarding status of the monitoring well examination, and selection of wells to be purged and sampled. CORs agreed with selection of wells to be sampled.

START personnel continued well purging operations. For the monitoring wells selected for redevelopment/purging, the purge volume in approximate (~) gallons is listed for each well. The following ~ volumes of ground water and/or material were purged from the groundwater

The following ~ volumes of ground water and/or material were purged from the groundwater wells listed above: MW-2: ~10 gallons; MW-3: ~10 gallons; MW-3D: ~20 gallons; MW-6: ~5 gallons; and MW-6D: ~ 30 gallons. Approximately 4.5 feet of silt material was removed from ground water monitoring well MW-6D. In addition, a very thin NAPL with a greasy feel, along with black oil-like droplets, and a rainbow sheen were observed in IDW purge water removed from MW-3, MW-3D, and MW-6D.

1330 hrs: START personnel secured the groundwater monitoring well IDW purge water drums, secured the site and departed the Jard property.

1 April 2013 (Monday) – Soil/Source Sampling

Weather: Cloudy, some rain, 45 to 50 °F

1045 hrs: START members Kelly, Hornok, Bitzas, Imbres, Robinson, and Jonathan Saylor arrived at the Jard property.

1100 hrs: START HSC Kelly reviewed the site HASP and conducted a tailgate health and safety meeting for all on-site START personnel, including reviews of the physical hazards (uneven terrain, trips-slips-falls, heavy lifting, Geoprobe Work concerns, potential adverse weather conditions), chemical hazards (PCBs), Radiation (Not encountered previously but will be monitored) and biological hazards (ticks, poison ivy, animals). Personnel reviewed and signed

TDD No. 01-12-10-0008 Logbook No. 01433-S

Jard Company, Inc. Bennington, Vermont CERCLIS No. VTD048141741

> the HASP documentation, as needed, START members completed calibration checks on air monitoring instrument; MultiRAE Plus, LEL, O2, H2S, CO, and PID meter. Background

Site Reassessment

ambient readings: LEL = 0%; $O_2 = 20.9\%$; $H_2S = 0$ ppm; CO = 0 ppm; and VOC = 0 ppm. START Team established decontamination area.

1115 hrs: START personnel began decontaminating non-dedicated field sampling equipment including Geoprobe macrocores and cutting shoes, hand augers, metal scoops, and low-flow bladder pumps. Non-dedicated equipment (Geoprobe equipment, augers, metal scoops, etc.) will be decontaminated after the collection of each sample, and prior to use for the collection of other samples.

1400 hrs; Began soil boing activities with the Geoprobe at soil boring location SB-01 located on the south-central area of the former building footprint in an area previously excavated during an EPA Removal action. An EPA removal action was completed at the site during 2007 where the building was razed, a portion of the concrete foundation was removed, and a permeable earthen cap was installed to limit exposure to contaminated soils. Boring activities as part of the Site Reassessment were targeted at the area of the foundation removal and soil excavation (southern portion of the former building footprint).

> Sampling on the Jard property and surrounding properties for solid matrices (soil/source, surface soil, and sediment) will be conducted as follows, unless otherwise noted: locations will be designated prior to initiation of sampling activities; at each location, sampling depth will be determined based on sampling objectives and/or materials encountered; for each sampled depth interval at each location, material will be placed in a large polyethylene bag (12 by 15 inches); the material will then be homogenized completely in the bag; the material will later be described by a licensed professional geologist using the modified Burmiester soil classification system and a small sample aliquot will be collected for PCB field screening analysis performed by the US EPA Mobile Laboratory personnel; based on field screening results and sampling objectives, a subset of samples will be selected for further analysis via Contract Laboratory Program (CLP) Aroclor analysis; samples selected for CLP analysis will be aliquoted with sufficient quality assurance/quality control (QA/QC) volume; all solid matrix samples submitted for CLP Aroclor analysis will also be aliquoted for potential congener analysis, unless otherwise noted; following receipt of CLP Aroclor analytical results, a smaller subset of samples will then be selected and submitted for congener analysis. A separate field data sheet will be completed by the field sampler for each sample collected to document relevant information and to supplement field logbook notes.

> Additional START personnel performed bump checks on calibrated YSI 550 pH/oxidation reduction potential (ORP)/Conductivity probes for ground water sampling scheduled to be completed on 2 April 2013. All the calibrated ground water sampling equipment was working properly (See calibration log sheets).

- 1415 hrs: Soil/source sample SB-01A (Sample #: JCS-128) was collected using a Geoprobe macrocore from a depth of 2.7 to 4 feet bgs from soil boring SB-01 and later submitted for PCB field screening analysis.
- 1420 hrs: Soil/source sample SB-01B (Sample #: JCS-129) was collected using a Geoprobe macrocore from a depth of 6.9 to 8 feet bgs from soil boring SB-01 and later submitted for PCB field screening analysis.
- 1430 hrs: Soil/source sample SB-01C (Sample #: JCS-130) was collected using a Geoprobe macrocore from a depth of 10.4 to 12 feet bgs from soil boring SB-01 and later submitted for PCB field screening analysis.
- Soil/source sample SB-01D (Sample #: JCS-131) was collected using a Geoprobe macrocore 1440 hrs: from a depth of 12 to 14 feet bgs from soil boring SB-01 and later submitted for PCB field screening analysis.

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- 1500 hrs: START personnel completed soil boing activities at location SB-01. Soil boring SB-01 was completed to a depth of 14 feet bgs due to refusal. See the soil Boring Logs for complete descriptions of the boring completed. The soil boring was backfilled with sand and bentonite. START personnel relocated to and began boring activities at soil boring location SB-02 located on the south-central area of the former building footprint in an area previously excavated during an EPA Removal action.
- 1520 hrs: Soil/source sample SB-02A (Sample #: JCS-132) was collected using a Geoprobe macrocore from a depth of 2.2 to 4 feet bgs from soil boring SB-02 and later submitted for PCB field screening analysis.
- 1530 hrs: Soil/source sample SB-02B (Sample #: JCS-133) was collected using a Geoprobe macrocore from a depth of 6.9 to 8 feet bgs from soil boring SB-02 and later submitted for PCB field screening analysis.
- 1540 hrs: Soil/source sample SB-02C (Sample #: JCS-134) was collected using a Geoprobe macrocore from a depth of 8.8 to 10 feet bgs from soil boring SB-02 and later submitted for PCB field screening analysis.
- 1545 hrs: START personnel completed soil boing activities at location SB-02. Soil boring SB-02 was completed to a depth of 10 feet bgs due to refusal. Evidence (piece of) the orange snow fence layer installed as part of the earthen cap construction was encountered at 2.5 feet bgs. See the soil Boring Logs for complete descriptions of the boring completed. The soil boring was backfilled with sand and bentonite. START personnel relocated to and began boring activities at soil boring location SB-03, located on the south-central capped area, adjacent to ground water monitoring wells MW-3 and MW-3D.
- 1555 hrs: Soil/source sample SB-03A (Sample #: JCS-135) was collected using a Geoprobe macrocore from a depth of 0.7 to 2.6 feet bgs from soil boring SB-03 and later submitted for PCB field screening analysis.
- 1605 hrs: Soil/source sample SB-03B (Sample #: JCS-136) was collected using a Geoprobe macrocore from a depth of 4.8 to 6.5 feet bgs from soil boring SB-03 and later submitted for PCB field screening analysis.
- 1610 hrs: START personnel completed soil boing activities at location SB-03. Soil boring SB-03 was completed to a depth of 6.5 feet bgs due to refusal. The soil boring was backfilled with sand and bentonite. START personnel completed soil boring activities for the day.
- 1630 hrs: Equipment rinsate blank sample RB-01 (Sample #: JCW-013; CLP #: A4B02) was collected from the Geoprobe macrocore system sampling equipment and is associated with soil/source sampling activities conducted on 1 April 2013.
- 1700 hrs: START personnel secured the site and departed the Jard property.

2 April 2013 (Tuesday) - Ground Water Sampling

Weather: Cloudy, little precipitation, low 30 °F

- 0700 hrs: START members Kelly, Hornok, Bitzas, Imbres, Robinson, and Saylor arrived at the Jard property.
- 0715 hrs: START HSC Kelly HSC Kelly reviewed the site HASP and conducted a tailgate health and safety meeting for all on-site START personnel, including reviews of the physical hazards (uneven terrain, trips-slips-falls, potential weather issues), chemical hazards [PCBs, non-aqueous phase liquids (NAPL) containing water], Radiation (Not encountered previously) and biological hazards (ticks, poison ivy, animals). Personnel reviewed and signed the HASP documentation, as needed. START members completed calibration checks on air monitoring instrument; MultiRAE Plus, LEL, O₂, H₂S, CO, and PID meter. Background ambient readings: LEL = 0%; O₂ = 20.9%; H₂S = 0 ppm; CO = 0 ppm; and VOC = 0 ppm. Note that the ground

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water monitoring equipment was calibrated on 1 April 2013 and bump-tested on 2 April 2013, and determined to be with calibration specifications (see calibration sheets).

START Team established decontamination area and conduct decontamination of non-dedicated equipment. Non-dedicated equipment (bladder pumps, measuring tapes, etc.) will be decontaminated after the collection of each sample, and prior to use for the collection of other samples.

0830 hrs: START member Bitzas began monitoring of low-flow parameters at ground water monitoring well EPA-104D located in the wetland area, west of Park Street and downgradient from the Jard property, behind the residential properties. START member Bitzas monitored low-flow ground water parameters per the Site-Specific Quality Assurance project Plan (QAPP) and START standard operating procedures (SOPs). See the field data sheets for more information.

0905 hrs: START member Saylor began monitoring of low-flow parameters at ground water monitoring well MW-11 located northwest of the Jard property. START member Saylor monitored low-flow ground water parameters per the Site-specific QAPP and START SOPs. See the field data sheets for more information.

0920 hrs: Stabilization of water quality parameters was achieved and ground water sample GW-10 [Matrix Spike/Matrix Spike Duplicate (MS/MSD)] (Sample #: JCW-010; CLP #: A4A99) was collected from monitoring well EPA-104D. Ground water sample GW-10 was collected using a bladder pump and the final water quality parameters were as follows: Temperature = 3.74 degrees Celsius (°C); Specific Conductivity = 91 micro Siemens per centimeter (μS/cm); pH = 5.72; ORP = 229.3 millivolts (mv); Dissolved Oxygen (DO) = 9.11 milligrams per liter (mg/L); and turbidity = 21.2 Nephelometric Turbidity Units (NTU). Note: Due to a YSI 550 probe malfunction, an additional volume of sample was collected for pH and ORP measurements using a second YSI 550. In addition, pH was monitored during low-flow activities with pH paper. Readings on pH paper indicated a pH between 5.0 and 6.0. A total of approximately 13.5 liters was purged prior to sample collection with the pump intake at 20.0 ft below the TOC. See the field data sheets for more information.

0940 hrs: START member Imbres began monitoring of low-flow parameters at ground water monitoring well EPA-107 located northwest of the Jard property. START member Imbres monitored low-flow ground water parameters per the Site-specific QAPP and START SOPs. See the field data sheets for more information.

1000 hrs: START member Robinson began monitoring of low-flow parameters at ground water monitoring well MW-9D located west of the Jard property. START member Robinson monitored low-flow ground water parameters per the Site-specific QAPP and START SOPs. See the field data sheets for more information.

1030 hrs: Stabilization of water quality parameters was achieved and ground water sample GW-02 (Sample #: JCW-002; CLP #: A4A91) was collected from monitoring well EPA-107. Ground water sample GW-02 was collected using a bladder pump and the final water quality parameters were as follows: Temperature = 5.14 °C; Specific Conductivity = $162 \mu \text{S/cm}$; pH = 7.12; ORP = 192.9 mv; DO = 4.40 mg/L; and turbidity = 0.51 NTU. A total of approximately 11.0 liters was purged prior to sample collection with the pump intake at 17 ft, below the TOC.

1110 hrs: Stabilization of water quality parameters was achieved and ground water sample GW-09 (Sample #: JCW-009; CLP #: A4A98) was collected from monitoring well MW-11. Ground water sample GW-09 was collected using a bladder pump and the final water quality parameters were as follows: Temperature = 3.42 °C; Specific Conductivity = 55 μS/cm; pH = 6.34; ORP = 138.6 mv; DO = 11.41 mg/L; and turbidity = 10.3 NTU. A total of approximately 61.7 liters was purged prior to sample collection with the pump intake at 6.5 ft. below the TOC. The turbidity meter initially used to evaluate low-flow ground water parameters compliance malfunctioned and was replaced with one that was operational.

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- 1125 hrs: Stabilization of water quality parameters was achieved and groundwater sample GW-08 (Sample #: JCW-008; CLP #: A4A97) and field duplicate GW-11 (Sample #: JCW-011; CLP #: A4B00) were collected from monitoring well MW-9D located west of the Jard property. Ground water samples GW-08 and GW-11 were collected using a bladder pump and the final water quality parameters were as follows: Temperature = 6.52 °C; Specific Conductivity = 44 µS/cm; pH = 6.29; ORP = 25.2 mv; DO = 0.13 mg/L; and turbidity = 34.2 NTU. A total of approximately 17 liters was purged prior to sample collection with the pump intake at 24 ft below the TOC. An issue was encountered with the turbidity meter during low-flow ground water monitoring, and was replaced with one that was operating.
- 1200 hrs: pH and ORP measurements were collected from a volume of water from ground water sample GW-10 and were as follows: pH = 5.72; ORP = 229.3 mv.
- 1250 hrs: START member Imbres began monitoring of low-flow parameters at ground water monitoring well EPA-100 located north of the Jard property. START member Imbres monitored all low-flow ground water parameters per the Site-specific QAPP and START SOPs. See the field data sheets for more information.
- 1310 hrs: START member Bitzas began monitoring of low-flow parameters at ground water monitoring well MW-2 located on the southern portion of the Jard property. START member Bitzas monitored all low-flow ground water parameters per the Site-specific QAPP and START SOPs. See the field data sheets for more information.
- 1345 hrs: START member Saylor began monitoring of low-flow parameters at ground water monitoring well MW-3D located directly south of the former building footprint on the southern portion of the Jard property. START member Saylor monitored all low-flow ground water parameters per the Site-specific QAPP and START SOPs. See the field data sheets for more information.
- 1355 hrs: Stabilization of water quality parameters was achieved and ground water sample GW-01 (Sample #: JCW-001; CLP #: A4A90) was collected from monitoring well EPA-100. Ground water sample GW-01 was collected using a bladder pump and the final water quality parameters were as follows: Temperature = 4.03 °C; Specific Conductivity = 119 μS/cm; pH = 6.61; ORP = 266.3 mv; DO = 11.74 mg/L; and turbidity = 1.78 NTU. A total of approximately 13.8 liters was purged prior to sample collection with the pump intake at 32 ft below the TOC.
- 1345 hrs: START member Robinson began monitoring of low-flow parameters at ground water monitoring well MW-6D located directly west of the former building footprint on the western boundary of the Jard property. START member Robinson monitored all low-flow ground water parameters per the Site-specific QAPP and START SOPs. See the field data sheets for more information.
- 1405 hrs: Stabilization of water quality parameters was achieved and ground water sample GW-03 (Sample #: JCW-003; CLP #: A4A92) was collected from monitoring well MW-02. Ground water sample GW-03 was collected using a peristaltic pump with dedicated tubing and the final water quality parameters were as follows: Temperature = 1.41 °C; Specific Conductivity = 79 μ S/cm; pH = 5.59; ORP = 175.3 mv; DO = 11.41 mg/L; and turbidity = 0.91 NTU. A total of approximately 11 liters was purged prior to sample collection with the intake at 8.6 ft below the TOC.
- 1505 hrs: Stabilization of water quality parameters was achieved and ground water sample GW-05 (Sample #: JCW-005; CLP #: A4A94) was collected from monitoring well MW-3D. Ground water sample GW-05 was collected using a bladder pump and the final water quality parameters were as follows: Temperature = 1.90 °C; Specific Conductivity = 47 μS/cm; pH = 6.37; ORP = 112.7 mv; DO = 4.75 mg/L; and turbidity = 1.16 NTU. A total of approximately 13.6 liters was purged prior to sample collection with the pump intake at 29 ft below the TOC. In addition, stabilization of water quality parameters was achieved and ground water sample GW-07 (Sample #: JCW-007; CLP # A4A96) was collected from monitoring well MW-6D.

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Ground water sample GW-07 was collected using a bladder pump and the final water quality parameters were as follows: Temperature = 7.17 °C; Specific Conductivity = 42 μ S/cm; pH = 6.53; ORP = 203.9 mv; DO = 8.80 mg/L; and turbidity = 51.7 NTU. A total of approximately 16.7 liters was purged prior to sample collection with the pump intake at 26.5 ft below the TOC.

1545 hrs: START member Robinson began monitoring of low-flow parameters at ground water monitoring well MW-6 located directly west of the former building footprint on the western boundary of the Jard property. START member Robinson monitored all low-flow ground water parameters per the Site-specific QAPP and START SOPs. See the field data sheets for more information. The YSI initially used to monitor low-flow ground water parameters was replaced with one that was operational.

1555 hrs: START member Saylor began monitoring of low-flow parameters at ground water monitoring well MW-3 located directly south of the former building footprint on the southern portion of the Jard property. START member Saylor monitored all low-flow ground water parameters per the Site-specific QAPP and START SOPs. See the field data sheets for more information. Low-flow ground water parameters were not conducted within a flow cell due to potential contamination/non-aqueous phase liquid (NAPL) within the well. Previous purging of the well on 28 March 2013 indicated product within the well that had a greasy feel and contained small oil droplets that were black in color.

1600 hrs: Equipment rinsate blank sample RB-20 (Sample #: JCW-012; CLP #: A4B01) was collected from a bladder pump sampling equipment and is associated with ground water sampling activities.

1630 hrs: Stabilization of water quality parameters was achieved and ground water sample GW-06 (Sample #: JCW-006; CLP #: A4A95) was collected from monitoring well MW-6. Ground water sample GW-06 was collected using a peristaltic pump with dedicated tubing and the final water quality parameters were as follows: Temperature = 4.18 °C; Specific Conductivity = 116 μS/cm; pH = 6.35; ORP = -83.6 mv; DO = 0.20 mg/L; and turbidity = 0.72 NTU. A total of approximately 9 liters was purged prior to sample collection with the intake at 13.5 ft below the TOC.

1700 hrs: Stabilization of water quality parameters was achieved and ground water sample GW-04 (Sample #: JCW-004; A4A93) was collected from monitoring well MW-3. Ground water sample GW-04 was collected using a peristaltic pump with dedicated tubing and the final water quality parameters were as follows: Temperature = 1.25 °C; Specific Conductivity = 69 μS/cm; pH = 6.67; ORP = -158.2 mv; DO = 4.40 mg/L; and turbidity = 0.93 NTU. A total of approximately 15 liters was purged prior to sample collection with the intake at 10.5 ft below the TOC. Ground water sample GW-04 was also collected for congener analysis.

1730 hrs: IDW purge water was containerized in 55-gallon steel drums and segregated based on well location (on or off the Jard property). Segregation is to aid in later IDW disposal, assuming wells from on the Jard property contain high concentrations of contaminants than those wells located off the Jard property. In addition, waste soil material and IDW Decon waste are also segregated to aid in later IDW disposal activities. START personnel secured IDW drums, secured the site and departed the Jard property.

3 April 2013 (Wednesday) - Soil/Source Sampling

Weather: Partly cloudy, high 30 °F

0700 hrs: START members Kelly, Hornok, Bitzas, Imbres, Robinson, and Jonathan Saylor arrived at the Jard property. In addition, performance evaluation samples PE-AA3325 (Sample #: JCW-014;

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CLP #: A4B03) and PE-AA2555 (Sample #: JCW-015; CLP#: A4B04) were collected for CLP Aroclor analysis.

- 0715 hrs: START HSC Kelly reviewed the site HASP and conducted a tailgate health and safety meeting for all on-site START personnel, including reviews of the physical hazards (uneven terrain, trips-slips-falls, heavy lifting, potential adverse weather conditions), chemical hazards (PCBs), Radiation (Not encountered previously but will be monitored) and biological hazards (ticks, poison ivy, snakes, animals). Personnel reviewed and signed the HASP documentation, as needed. START members completed calibration checks on air monitoring instrument; MultiRAE Plus, LEL, O₂, H₂S, CO, and PID meter. Background ambient readings: LEL = 0%; O₂ = 20.9%; H₂S = 0 ppm; CO = 0 ppm; and VOC = 0 ppm.
 - START Team established decontamination area and conduct decontamination of non-dedicated equipment. Non-dedicated equipment (augers, metal scoops, etc.) will be decontaminated after the collection of each sample, and prior to use for the collection of other samples.
- 0815 hrs: Soil/source sample SO-01A (Sample #: JCS-001) was collected with a hand auger at a depth of 0 to 8 inches bgs from the upper north-central portion of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 0820 hrs: Soil/source sample SO-02A (Sample #: JCS-002) was collected with a hand auger at a depth of 0 to 6 inches bgs from the upper central portion of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 0830 hrs: Soil/source sample SO-03A (Sample #: JCS-003) was collected with a hand auger at a depth of 0 to 6 inches bgs from the upper north-central portion of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.

 In addition, soil/source sample SO-04A (Sample #: JCS-004) was collected with a hand auger at a depth of 0 to 12 inches bgs from the upper central portion of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 0840 hrs: Soil/source sample SO-05A (Sample #: JCS-005) was collected with a hand auger at a depth of 0 to 8 inches bgs from the upper north-central portion of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.

 In addition, soil/source sample SO-06A (Sample #: JCS-006) was collected with a hand auger at a depth of 0 to 6 inches bgs from the upper central portion of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 0845 hrs: Soil/source sample SO-06B (Sample #: JCS-007) and soil/source field duplicate SO-100B (Sample #: JCS-065) were collected with a hand auger at a depth of 6 to 12 inches bgs from the upper central portion of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 0855 hrs: Soil/source sample SO-07A (Sample #: JCS-008) was collected with a hand auger at a depth of 0 to 12 inches bgs from the upper north-central portion of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis. In addition, soil/source sample SO-08A (Sample #: JCS-009) was collected with a hand auger at a depth of 0 to 8 inches bgs from the upper north-central portion of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 1010 hrs: Soil/source sample SO-09A (Sample #: JCS-027) was collected with a hand auger at a depth of 0 to 8 inches bgs from the upper west-central portion of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.

 In addition, soil/source sample SO-10A (Sample #: JCS-010) was collected with a hand auger at a depth of 0 to 12 inches bgs from the upper central portion of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.

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- 1025 hrs: Soil/source sample SO-12A (Sample #: JCS-013) was collected with a hand auger at a depth of 0 to 6 inches bgs from the upper east-central portion of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 1030 hrs: Soil/source sample SO-11A (Sample #: JCS-011) was collected with a hand auger at a depth of 0 to 18 inches bgs from the upper west-central portion of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 1035 hrs: Soil/source sample SO-11B (Sample #: JCS-012) was collected with a hand auger at a depth of 18 to 42 inches bgs from the upper west-central portion of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis,
- 1040 hrs: Soil/source sample SO-14A (Sample #: JCS-015) was collected with a hand auger at a depth of 0 to 12 inches bgs from the upper east-central portion of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 1050 hrs: Soil/source sample SO-16A (Sample #: JCS-017) was collected with a hand auger at a depth of 0 to 6 inches bgs from the upper south-central portion of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 1055 hrs: Soil/source sample SO-16B (Sample #: JCS-018) was collected with a hand auger at a depth of 6 to 12 inches bgs from the upper south-central portion of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 1100 hrs: Soil/source sample SO-13A (Sample #: JCS-014) was collected with a hand auger at a depth of 0 to 16 inches bgs from the upper western-central portion of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 1106 hrs: Soil/source sample SO-18A (Sample #: JCS-020) was collected with a hand auger at a depth of 0 to 6 inches bgs from the upper southwestern portion of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 1110 hrs: Soil/source sample SO-15A (Sample #: JCS-016) was collected with a hand auger at a depth of 0 to 18 inches bgs from the upper southwestern portion of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 1123 hrs: Soil/source sample SO-18B (Sample #: JCS-021) was collected with a hand auger at a depth of 6 to 12 inches bgs from the upper southwestern portion of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 1125 hrs: Soil/source sample SO-17A (Sample #: JCS-019) was collected with a hand auger at a depth of 0 to 12 inches bgs from the upper southwestern portion of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 1130 hrs: Soil/source sample SO-19A (Sample #: JCS-022) was collected with a hand auger at a depth of 0 to 12 inches bgs from the upper central portion of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 1143 hrs: Soil/source sample SO-20A (Sample #: JCS-023) was collected with a hand auger at a depth of 0 to 6 inches bgs from the upper southern portion of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 1150 hrs: Soil/source sample SO-21A (Sample #: JCS-024) was collected with a hand auger at a depth of 0 to 12 inches bgs from the upper southern portion of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 1155 hrs: Soil/source sample SO-22A (Sample #: JCS-025) was collected with a hand auger at a depth of 0 to 6 inches bgs from the upper southwestern portion of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 1200 hrs: Soil/source sample SO-23A (Sample #: JCS-026) was collected with a hand auger at a depth of 0 to 3 inches bgs from the upper southwestern portion of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.

- 1215 hrs: START personnel continued to complete CLP documentation and to package ground water and rinsate blank samples for shipment to the CLP Laboratory located in Mountainside, New Jersey. START geologist Kelly continued to conduct classification of sample matrix materials using the modified Burmiester soil classification and to prepare sample aliquots for field screening.
- 1540 hrs: Equipment rinsate blank sample RB-02 (Sample #: JCW-016: CLP #: A4B05) was collected from a hand auger sampling equipment (augers, scoops, etc.) and is associated with soil/source sampling activities.
- 1630 hrs: START personnel completed sample shipment preparation, organized and packaged traffic reports. START member Bitzas left the site and proceeded to deliverer samples and paperwork to FedEx, located in Menands, New York for shipment. Below is a summary of the traffic reports (TR), Airbill numbers (AB), and samples sent to the CLP Organics Laboratory (Chemtech Consulting Group) for PCB Aroclor analysis:
 - TR #: 1-040313-081601-0001, Master AB #: 5141 2418 0581, four groundwater samples for PCB Aroclor analysis. These four samples were shipped as dangerous goods due to previous sampling results and field observations and were to be combined with samples shipped under TR #: 1-040313-083108-0002 AB #: 5141 2418 0559, to constitute a complete sample delivery group (SDG) with appropriate quality assurance/quality control (QA/QC) samples.
 - TR #: 1-040313-083108-0002 AB #: 5141 2418 0559, seven ground water samples including one field duplicate, and one MS/MSD; plus two rinsate blank, and two performance evaluation samples for PCB Aroclor analysis. Samples from this TR were to be combined with samples shipped under TR #: 1-040313-081601-0001, Master AB #: 5141 2418 0581, to form a complete SDG.

1700 hrs: START personnel secured IDW drums, secured the site and departed the Jard property.

4 April 2013 (Thursday) – Soil/Source Sampling

Weather: Sunny, 45 to 50 °F

- 0700 hrs: START members Kelly, Hornok, Bitzas, Imbres, Robinson, and Jonathan Saylor arrived at the Jard property.
- 0715 hrs: START HSC Kelly reviewed the site HASP and conducted a tailgate health and safety meeting for all on-site START personnel, including reviews of the physical hazards (uneven terrain, trips-slips-falls, heavy lifting, traffic concerns, potential adverse weather conditions), chemical hazards (PCBs), Radiation (Not encountered previously but will be monitored) and biological hazards (ticks, poison ivy, animals). Personnel reviewed and signed the HASP documentation, as needed. START members completed calibration checks on air monitoring instrument; MultiRAE Plus, LEL, O2, H2S, CO, and PID meter. Background ambient readings: LEL = 0%; O2 = 20.9%; H2S = 0 ppm; CO = 0 ppm; and VOC = 0 ppm.

START Team established decontamination area and conduct decontamination of non-dedicated equipment. Non-dedicated equipment (augers, metal scoops, etc.) will be decontaminated after the collection of each sample, and prior to use for the collection of other samples.

- 0800 hrs: Soil/source sample SO-24A (Sample #: JCS-078) was collected with a hand auger at a depth of 0 to 8 inches bgs from the drainage ditch located on the northwestern portion of the Jard property and later submitted for PCB field screening analysis.
 - In addition, soil/source sample SO-25A (Sample #: JCS-028) was collected with a hand auger at a depth of 0 to 12 inches bgs from the drainage ditch located on the western portion of the Jard property and later submitted for PCB field screening analysis.

- Soil/source sample SO-50A (Sample #: JCS-066) was collected with a hand auger at a depth of 0 to 12 inches bgs from the area below the former transformer area located on the southern portion of the Jard property and later submitted for PCB field screening analysis.
- 0805 hrs: Soil/source sample SO-24B (Sample #: JCS-079) was collected with a hand auger at a depth of 8 to 24 inches bgs from the drainage ditch located on the northwestern portion of the Jard property and later submitted for PCB field screening analysis.
- 0810 hrs: Soil/source sample SO-25B (Sample #: JCS-029) was collected with a hand auger at a depth of 12 to 30 inches bgs from the drainage ditch located on the western portion of the Jard property and later submitted for PCB field screening analysis.

In addition, soil/source sample SO-24C (Sample #: JCS-080) was collected with a hand auger at a depth of 24 to 30 inches bgs from the drainage ditch located on the northwestern portion of the Jard property and later submitted for PCB field screening analysis.

Soil/source sample SO-50B (Sample #: JCS-067) was collected with a hand auger at a depth of 12 to 16 inches bgs from the area below the former transformer area located on the southern portion of the Jard property and later submitted for PCB field screening analysis.

- 0815 hrs: Soil/source sample SO-25C (Sample #: JCS-030) was collected with a hand auger at a depth of 30 to 48 inches bgs from the drainage ditch located on the western portion of the Jard property and later submitted for PCB field screening analysis.
- 0818 hrs: Soil/source sample SO-51A (Sample #: JCS-068) was collected with a hand auger at a depth of 0 to 6 inches bgs from the area below the former transformer area located on the southern portion of the Jard property and later submitted for PCB field screening analysis.
- 0823 hrs: Soil/source sample SO-26A (Sample #: JCS-031) was collected with a hand auger at a depth of 0 to 12 inches bgs from the drainage ditch located on the northwestern portion of the Jard property and later submitted for PCB field screening analysis.
- 0826 hrs: Soil/source sample SO-52A (Sample #: JCS-069) was collected with a hand auger at a depth of 0 to 4 inches bgs from the area below the former transformer area located on the southern portion of the Jard property and later submitted for PCB field screening analysis.
- 0830 hrs: Soil/source sample SO-27A (Sample #: JCS-036) was collected with a hand auger at a depth of 0 to 18 inches bgs from the drainage ditch located on the western portion of the Jard property and later submitted for PCB field screening analysis.
- 0833 hrs: Soil/source sample SO-26B (Sample #: JCS-032) was collected with a hand auger at a depth of 12 to 18 inches bgs from the drainage ditch located on the northwestern portion of the Jard property and later submitted for PCB field screening analysis.
- 0835 hrs: Soil/source sample SO-27B (Sample #: JCS-038) was collected with a hand auger at a depth of 18 to 24 inches bgs from the drainage ditch located on the western portion of the Jard property and later submitted for PCB field screening analysis.
- 0836 hrs: Soil/source sample SO-26C (Sample #: JCS-033) was collected with a hand auger at a depth of 18 to 24 inches bgs from the drainage ditch located on the northwestern portion of the Jard property and later submitted for PCB field screening analysis.
- 0840 hrs: Soil/source sample SO-26D (Sample #: JCS-034) was collected with a hand auger at a depth of 24 to 36 inches bgs from the drainage ditch located on the northwestern portion of the Jard property and later submitted for PCB field screening analysis.
- 0845 hrs: Soil/source sample SO-29A (Sample #: JCS-040) was collected with a hand auger at a depth of . 0 to 12 inches bgs from the area located along the western boundary of the Jard property and later submitted for PCB field screening analysis.
- 0850 hrs: Soil/source sample SO-26E (Sample #: JCS-035) was collected with a hand auger at a depth of 36 to 42 inches bgs from the drainage ditch located on the northwestern portion of the Jard property and later submitted for PCB field screening analysis.

- 0900 hrs: Soil/source sample SO-31A (Sample #: JCS-043) was collected with a hand auger at a depth of 0 to 12 inches bgs from the area located along the western boundary of the Jard property and later submitted for PCB field screening analysis.
- 0905 hrs: Soil/source sample SO-28A (Sample #: JCS-039) was collected with a hand auger at a depth of 0 to 8 inches bgs from the area located along the western boundary of the Jard property and later submitted for PCB field screening analysis.

 In addition, soil/source sample SO-31B (Sample #: JCS-044) was collected with a hand auger at a depth of 12 to 24 inches has from the area located along the western boundary of the Lord

at a depth of 12 to 24 inches bgs from the area located along the western boundary of the Jard property and later submitted for PCB field screening analysis.

- 0920 hrs: Soil/source sample SO-30A (Sample #: JCS-041) was collected with a hand auger at a depth of 0 to 12 inches bgs from the area located along the southwestern boundary of the Jard property and later submitted for PCB field screening analysis.

 In addition, soil/source sample SO-33A (Sample #: JCS-081) was collected with a hand auger at a depth of 0 to 18 inches bgs from the area located along the northwestern boundary of the Jard property and later submitted for PCB field screening analysis.
- O930 hrs: Soil/source sample SO-30B (Sample #: JCS-042) was collected with a hand auger at a depth of 12 to 24 inches bgs from the area located along the southwestern boundary of the Jard property and later submitted for PCB field screening analysis.

 In addition, soil/source sample SO-33B (Sample #: JCS-082) was collected with a hand auger at a depth of 18 to 30 inches bgs from the area located along the northwestern boundary of the Jard property and later submitted for PCB field screening analysis.
- 0935 hrs: Soil/source sample SO-33C (Sample #: JCS-083) was collected with a hand auger at a depth of 30 to 36 inches bgs from the area located along the northwestern boundary of the Jard property and later submitted for PCB field screening analysis.
- 0940 hrs: Soil/source sample SO-32A (Sample #: JCS-045) was collected with a hand auger at a depth of 0 to 12 inches bgs from the area located along the southwestern boundary of the Jard property and later submitted for PCB field screening analysis.
- 1035 hrs: Soil/source sample SO-35A (Sample #: JCS-047) was collected with a hand auger at a depth of 0 to 12 inches bgs from the southwestern slope of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 1045 hrs: Soil/source sample SO-37A (Sample #: JCS-049) was collected with a hand auger at a depth of 0 to 6 inches bgs from the southwestern slope of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.

 In addition, soil/source sample SO-53A (Sample #: JCS-084) was collected with a hand auger at a depth of 0 to 12 inches bgs from the area below the former transformer area located on the southern portion of the Jard property and later submitted for PCB field screening analysis.
- 1055 hrs: Soil/source sample SO-39A (Sample #: JCS-051) was collected with a hand auger at a depth of 0 to 12 inches bgs from the southwestern slope of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.

 In addition, soil/source sample SO-54A (Sample #: JCS-085) was collected with a hand auger at a depth of 0 to 8 inches bgs from the area below the former transformer area located on the southern portion of the Jard property and later submitted for PCB field screening analysis.
- 1100 hrs: Soil/source sample SO-39B (Sample #: JCS-052) was collected with a hand auger at a depth of 12 to 24 inches bgs from the southwestern slope of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.

 START geologist Kelly continued to conduct classification of sample matrix materials using the modified Burmiester soil classification and to prepare sample aliquots for field screening.

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- 1110 hrs: Soil/source sample SO-41A (Sample #: JCS-054) was collected with a hand auger at a depth of 0 to 8 inches bgs from the western slope of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 1120 hrs: Soil/source sample SO-41B (Sample #: JCS-055) was collected with a hand auger at a depth of 8 to 18 inches bgs from the western slope of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 1125 hrs: Soil/source sample SO-41C (Sample #: JCS-056) was collected with a hand auger at a depth of 18 to 30 inches bgs from the western slope of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 1145 hrs: Soil/source sample SO-34A (Sample #: JCS-046) was collected with a hand auger at a depth of 0 to 12 inches bgs from the upper northeastern portion of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis. In addition, soil/source sample SO-43A (Sample #: JCS-058) was collected with a hand auger at a depth of 0 to 12 inches bgs from the southwestern toe slope of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 1150 hrs: Soil/source sample SO-45A (Sample #: JCS-060) was collected with a hand auger at a depth of 0 to 18 inches bgs from the western toe slope of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 1210 hrs: Soil/source sample SO-47A (Sample #: JCS-062) was collected with a hand auger at a depth of 0 to 6 inches bgs from the western slope of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 1210 hrs: START Member Hornok contacted and discussed sampling progress with COR Bosworth. Discussed number of samples collected to date, groundwater well sampling status, difficulties source sampling to depth on the upper portion of the source pile, source areas along western property boundary, and planned field screening and sampling activities. Scott Clifford (EPA Chemist) will be on site on Monday (4/8/13).
- 1225 hrs: Soil/source sample SO-38A (Sample #: JCS-050) was collected with a hand auger at a depth of 0 to 8 inches bgs from the upper northern portion of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 1230 hrs: Soil/source sample SO-36A (Sample #: JCS-048) was collected with a hand auger at a depth of 0 to 12 inches bgs from the upper northern portion of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.

 In addition, soil/source sample SO-49A (Sample #: JCS-064) was collected with a plastic scoop at a depth of 0 to 3 inches bgs from the western slope of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 1235 hrs: Soil/source sample SO-55A (Sample #: JCS-070) was collected with a plastic scoop at a depth of 0 to 4 inches bgs from the western slope of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 1350 hrs: Soil/source sample SO-56A (Sample #: JCS-071) was collected with a hand auger at a depth of 0 to 12 inches bgs from the western toe slope of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 1405 hrs: Soil/source sample SO-57A (Sample #: JCS-072) was collected with a hand auger at a depth of 0 to 6 inches from the western toe slope of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 1415 hrs: Soil/source sample SO-40A (Sample #: JCS-053) was collected with a hand auger at a depth of 0 to 8 inches bgs from the upper northwestern portion of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.

- 1420 hrs: Soil/source sample SO-42A (Sample #: JCS-057) was collected with a hand auger at a depth of 0 to 12 inches bgs from the northern slope of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 1425 hrs: Soil/source sample SO-59A (Sample #: JCS-074) was collected with a metal scoop at a depth of 0 to 4 inches bgs from the western slope of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 1430 hrs: Soil/source sample SO-58A (Sample #: JCS-073) was collected with a metal scoop at a depth of 0 to 2 inches bgs from the western slope of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 1435 hrs: Soil/source sample SO-60A (Sample #: JCS-075) was collected with a hand auger at a depth of 0 to 12 inches bgs from the western slope of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 1438 hrs: Soil/source sample SO-46A (Sample #: JCS-061) was collected with a hand auger at a depth of 0 to 8 inches from the northern slope of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 1440 hrs: Soil/source sample SO-44A (Sample #: JCS-059) was collected with a hand auger at a depth of 0 to 6 inches bgs from the northern slope of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 1505 hrs: Soil/source sample SO-61A (Sample #: JCS-182) was collected with a hand auger at a depth of 0 to 12 inches from the western slope of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 1515 hrs: Soil/source sample SO-63A (Sample #: JCS-077) was collected with a hand auger at a depth of 0 to 8 inches bgs from the western slope of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 1520 hrs: Soil/source sample SO-62A (Sample #: JCS-076) was collected with a hand auger at a depth of 0 to 12 inches from the northern slope of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.

 In addition, soil/source sample SO-64A (Sample #: JCS-183) was collected with a hand auger at a depth of 0 to 4 inches from the northern slope of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 1630 hrs: Soil/source sample SO-48A (Sample #: JCS-063) was collected with a plastic scoop at a depth of 0 to 3 inches bgs from the western slope of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 1700 hrs: Equipment rinsate blank sample RB-03 (Sample #: JCW-017: CLP #: A4B06) was collected from hand auger sampling equipment (augers, scoops, etc.) associated with soil/source sampling activities.
- 1705 hrs: Equipment rinsate blank sample RB-04 (Sample #: JCW-018: CLP #: A4B07) was collected from hand auger sampling equipment (augers, scoops, etc.) associated with soil/source sampling activities.
- 1730 hrs: START personnel secured IDW drums, secured the site and departed the Jard property.

5 April 2013 (Friday) – Soil/Source Sampling

Weather: Partly cloudy, low 50 °F

- 0730 hrs: START members Kelly, Hornok, Bitzas, Imbres, Robinson, and Jonathan Saylor arrived at the Jard property. COR Bosworth also arrived on site for meeting with EPA and town representatives.
- 0745 hrs: START HSC Kelly reviewed the site HASP and conducted a tailgate health and safety meeting for all on-site START personnel, including reviews of the physical hazards (uneven

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terrain, trips-slips-falls, heavy lifting, traffic concerns, potential adverse weather conditions), chemical hazards (PCBs), Radiation (Not encountered previously but will be monitored) and biological hazards (ticks, poison ivy, animals). Personnel reviewed and signed the HASP documentation, as needed. START members completed calibration checks on air monitoring instrument; MultiRAE Plus, LEL, O2, H2S, CO, and PID meter. Background ambient readings: LEL = 0%; $O_2 = 20.9\%$; $H_2S = 0$ ppm; CO = 0 ppm; and CO = 0 ppm.

START Team established decontamination area and conduct decontamination of non-dedicated equipment. Non-dedicated equipment (augers, metal scoops, etc.) will be decontaminated after the collection of each sample, and prior to use for the collection of other samples.

START embers Kelly and Hornok held discussions with COR Bosworth regarding current status of sampling activities, Flex-viewer Data Management Resource, and groundwater shipment/delivery.

0845 hrs: Soil/source sample SO-65A (Sample #: JCS-086) was collected with a hand auger at a depth of 0 to 8 inches from the western slope of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.

START geologist Kelly continued to conduct classification of sample matrix materials using the modified Burmiester soil classification and to prepare sample aliquots for field screening.

0855 hrs: Soil/source sample SO-66A (Sample #: JCS-087) was collected with a plastic scoop at a depth of 0 to 3 inches bgs from the northern slope of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.

0900 hrs: Soil/source sample SO-67A (Sample #: JCS-088) was collected with a hand auger at a depth of 0 to 6 inches bgs from the western slope of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.

In addition, soil/source sample SO-68A (Sample #: JCS-089) was collected with a hand auger

at a depth of 0 to 12 inches bgs from the northern slope of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.

0915 hrs: Soil/source sample SO-70A (Sample #: JCS-093) was collected with a hand auger at a depth of 0 to 12 inches bgs from the northern slope of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.

In addition, soil/source sample SO-72A (Sample #: JCS-095) was collected with a hand auger at a depth of 0 to 10 inches bgs from the drainage area at the base of the northeastern corner of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.

0920 hrs: Soil/source sample SO-69A (Sample #: JCS-090) was collected with a hand auger at a depth of 0 to 12 inches bgs from the western slope of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.

In addition, soil/source sample SO-72B (Sample #: JCS-096) was collected with a hand auger at a depth of 10 to 20 inches bgs from the drainage area at the base of the northeastern corner of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.

0925 hrs: Soil/source sample SO-69B (Sample #: JCS-091) was collected with a hand auger at a depth of 12 to 36 inches bgs from the western slope of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.

0930 hrs: Soil/source sample SO-69C (Sample #: JCS-092) was collected with a hand auger at a depth of 36 to 48 inches bgs from the western slope of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.

DRAFT Log Book Notes

TDD No. 01-12-10-0008 Logbook No. 01433-S Site Reassessment

- 0945 hrs: Soil/source sample SO-76A (Sample #: JCS-102) was collected with a hand auger at a depth of 0 to 14 inches bgs from the eastern slope of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 0950 hrs: Soil/source sample SO-71A (Sample #: JCS-094) was collected with a hand auger at a depth of 0 to 24 inches bgs from the lower eastern slope of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.

 In addition, soil/source sample SO-74A (Sample #: JCS-098) was collected with a hand auger

at a depth of 0 to 12 inches bgs from the eastern slope of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.

- 1000 hrs: Soil/source sample SO-74B (Sample #: JCS-099) was collected with a hand auger at a depth of 12 to 30 inches bgs from the eastern slope of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 1005 hrs: Soil/source sample SO-73A (Sample #: JCS-097) was collected with a hand auger at a depth of 0 to 28 inches bgs from the eastern slope of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 1010 hrs: Soil/source sample SO-75A (Sample #: JCS-100) was collected with a hand auger at a depth of 0 to 12 inches bgs from the eastern slope of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 1020 hrs: Soil/source sample SO-77A (Sample #: JCS-101) was collected with a hand auger at a depth of 0 to 18 inches bgs from the eastern slope of the pile located on the eastern portion of the Jard property and later submitted for PCB field screening analysis.
- 1100 hrs: VT DEC ANR Wetland Specialist Julie Foley arrived on-site to discuss wetland areas around the site with START personnel. Wetland Specialist Foley provide START with previously completed wetland delineation map of wetlands to west of Park Street. START members Hornok, Bitzas and Kelly reviewed available wetland references/maps with Specialist Foley.
- 1130 hrs: Equipment rinsate blank sample RB-05 (Sample #: JCW-019: CLP #: A4B08) was collected from hand auger sampling equipment (augers, scoops, etc.) associated with soil/source sampling activities.
 - COR Bosworth returned from meeting with Section Chief Meghan Cassidy to review operations.
- 1140 hrs: COR Bosworth and Section Chief Cassidy departed site.

 Wetland Specialist Foley accompanied START members Kelly and Bitzas on reconnaissance of wetland areas to the west of Park Street and background wetland area along Bowen Road north of the Jard property.
- 1200 hrs: START personnel completed sample shipment preparation, organized and packaged traffic reports. START members Robinson and Saylor proceeded to deliverer samples and paperwork to FedEx, located in Brattleboro, VT for shipment. Below is a summary of the TRs AB numbers and samples sent to the CLP Organics Laboratory (Chemtech Consulting Group) for PCB Aroclor analysis:
 - TR #: 1-040513-111321-0003, Master AB #: 5141 2418 0662, four aqueous equipment rinsate blank samples for PCB Aroclor analysis.
- 1215 hrs: Wetland Specialist Foley confirmed that wetland delineation map of wetlands to west of Park Street is generally the same as current conditions based on reconnaissance and review of area. Foley also noted that the proposed background area to the north along Bowen Road, contained similar types of wetland (PEM, PSS, POW, etc.). Wetland Specialist Foley left the site to attend a local meeting/inspection.

START member Kelly spoke START PM McDuffee regarding leaving the Geoprobe Truck secured on the VTrans property for the weekend in an effort to be more sustainable/"Green". PM McDuffee agreed to plan.

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START members Hornok and Kelly spoke with a VTrans representative at the Bowen Road facility regarding leaving the Geoprobe Truck secured on the VTDOT property for the weekend in an effort to be more sustainable/"Green". The VTrans representative agreed and explained there security for the weekend hours and where it would be best to park the vehicle. Informed PM McDuffee agreed to plan.

1230 hrs: Remaining START personnel secured IDW drums, secured the site and departed the Jard property for the START office located in Andover, MA.

8 April 2013 (Monday) - Soil/Source Sampling

Weather: Partly sunny, high 50 to low 60 °F

1030 hrs: START members Kelly, Hornok, Bitzas, Eric Ackerman, Chris Dupree, Robinson, Jonathan Saylor, and Robert Sharp arrived at the Jard property. START Member Hornok picked up Geoprobe truck from VT DOT facility along Bowen Road. In addition, EPA SAM Martha Bosworth had already arrived on-site.

1045 hrs: START HSC Kelly reviewed the site HASP and conducted a tailgate health and safety meeting for all on-site START personnel, including reviews of the physical hazards (uneven terrain, trips-slips-falls, heavy lifting, Geoprobe Work concerns, potential adverse weather conditions), chemical hazards (PCBs), Radiation (Not encountered previously but will be monitored) and biological hazards (ticks, poison ivy, dogs, animals). Personnel reviewed and signed the HASP documentation, as needed. START members completed calibration checks on air monitoring instrument; MultiRAE Plus, LEL, O2, H2S, CO, and PID meter. Background ambient readings: LEL = 0%; O₂ = 20.9%; H₂S = 0 ppm; CO = 0 ppm; and VOC = 0 ppm.

START Team established decontamination area and conduct decontamination of non-dedicated equipment. Non-dedicated equipment (Geoprobe equipment, augers, metal scoops, etc.) will be decontaminated after the collection of each sample, and prior to use for the collection of other samples.

1100 hrs: Soil boring activities began at soil boring location SB-05 located on the south-eastern area of the former building footprint in an area previously excavated during an EPA Removal action. In addition, EPA Office of Environmental Measurement and Evaluation (OEME) Mobile Laboratory chemist Scott Clifford arrived on-site to perform PCB field screening analysis. Sample aliquots for PCB field screening, collected to date between 1 April and 5 April, were transferred to EPA chemist Clifford for processing and PCB field screening analyses.

START geologist Kelly continued to conduct classification of sample matrix materials using the modified Burmiester soil classification and to prepare sample aliquots for field screening.

1130 hrs: Soil/source sample SB-05A (Sample #: JCS-137) was collected using a Geoprobe macrocore from a depth of 2.1 to 4 feet bgs from soil boring SB-05 and later submitted for PCB field screening analysis.

1135 hrs: Soil/source sample SB-05B (Sample #: JCS-138) was collected using a Geoprobe macrocore from a depth of 5.3 to 5.6 feet bgs from soil boring SB-05 and later submitted for PCB field screening analysis.

1140 hrs: START personnel completed soil boring activities at location SB-05. Soil boring SB-05 was completed to a depth of 6 feet bgs due to refusal. Team backfilled hole with sand and bentonite and relocated to next location. Boring activities began at soil boring location SB-07 located on the south-eastern area of the former building footprint in an area previously excavated during an EPA Removal action.

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USEPA CLP Organics COC (LAB COPY)

DateShipped: 4/3/2013 CarrierName: FedEx AirbillNo: 5141 2418 0559



CHAIN OF CUSTODY RECORD

Case #: 43392 Cooler #: LM003/GH001/SB014

No: 1-040313-083108-0002

Lab: ChemTech Consulting Group Lab Contact: Divya Mehta Lab Phone: 908-789-8900

Organic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Inorganic Sample #	For Lab Use Only
A4A90	Ground Water/ START	Grab	CLP PCBs(21), CLP PCBs(21)	1 (4 C), 2 (4 C) (2)	JCW-001	04/02/2013 13:55		
A4A91	Ground Water/ START	Grab	CLP PCBs(21), CLP PCBs(21)	3 (4 C), 4 (4 C) (2)	JCW-002	04/02/2013 10:30		
A4A92	Ground Water/ START	Grab	CLP PCBs(21), CLP PCBs(21)	5 (4 C), 6 (4 C) (2)	JCW-003	04/02/2013 14:05		
A4A97	Ground Water/ START	Grab	CLP PCBs(21), CLP PCBs(21)	15 (4 C), 16 (4 C) (2)	JCW-008	04/02/2013 11:25		
A4A98	Ground Water/ START	Grab	CLP PCBs(21), CLP PCBs(21)	17 (4 C), 18 (4 C) (2)	JCW-009	04/02/2013 11:10		· ·
A4A99	Ground Water/ START	Grab	CLP PCBs(21), CLP PCBs(21), CLP PCBs(21), CLP PCBs(21), CLP PCBs(21), CLP PCBs(21)	19 (4 C), 20 (4 C), 21 (4 C), 22 (4 C), 23 (4 C), 24 (4 C) (6)	JCW-010	04/02/2013 09:20		
A4B00	Ground Water/ START	Grab	CLP PCBs(21), CLP PCBs(21)	25 (4 C), 26 (4 C) (2)	JCW-011	04/02/2013 11:25		**************************************
A4B01	Water/ START	Grab	CLP PCBs(21), CLP PCBs(21)	27 (4 C), 28 (4 C) (2)	JCW-012	04/02/2013 16:00		
A4B02	Water/ START	Grab	CLP PCBs(21), CLP PCBs(21)	29 (4 C), 30 (4 C) (2)	JCW-013	04/01/2013 16:30		
A4B03	Water/ START	Grab	CLP PCBs(21)	31 (4 C) (1)	JCW-014	04/03/2013 07:00		
A4B04	Water/ START	Grab	CLP PCBs(21)	32 (4 C) (1)	JCW-015	04/03/2013 07:00		

Sample(s) to be used for Lab QC: A4A99 - Special Instructions: Please combine with samples shipped under FedEx Airbill.#: 5141 2418 0581, COC #: 1-040313-081601-0001 to form one sample delivery group. TOUP: SC Analysis Key: CLP PCBs=SOM01.2 Aroclors

Shipment for Case Complete? N Samples Transferred From Chain of Custody #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
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Page 1 of 1

USEPA CLP Organics COC (LAB COPY)

DateShipped: 4/3/2013

AirbillNo: 5141 2418 0581

CarrierName: FedEx

CHAIN OF CUSTODY RECORD

Case #: 43392 Cooler #:



No: 1-040313-081601-0001

Lab: ChemTech Consulting Group Lab Contact: Divya Mehta Lab Phone: 908-789-8900

Organic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Inorganic Sample #	For Lab Use Only
A4A93	Ground Water/ START	Grab	CLP PCBs(21), CLP PCBs(21)	7 (4 C), 8 (4 C) (2)	JCW-004	04/02/2013 17:00		
A4A94	Ground Water/ START	Grab	CLP PCBs(21), CLP PCBs(21)	10 (4 C), 9 (4 C) (2)	JCW-005	04/02/2013 15:05		
A4A95	Ground Water/ START	Grab	CLP PCBs(21), CLP PCBs(21)	11 (4 C), 12 (4 C) (2)	JCW-006	04/02/2013 16:30		
A4A96	Ground Water/ START	Grab	CLP PCBs(21), CLP PCBs(21)	13 (4 C), 14 (4 C) (2)	JCW-007	04/02/2013 15:05		
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Special Instructions: Samples shipped as dangerous goods due to elevated PCB concentrations noted in previous sampling. Note, CLP Sample # A4A93 contains NAPL and may require dilution. Also, please combine these samples with samples shipped under Fedex Airbill # 5141 2418 0559, COC #: 1-040313-083108-0002 to create one SDG.

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: CLP PCBs=SOM01.2 Aroclors

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
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SDG-A4A90

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USEPA CLP Organics COC (LAB COPY)

DateShipped: 4/5/2013 CarrierName: FedEx AirbillNo: 5141 2418 0662



CHAIN OF CUSTODY RECORD

Case #: 43392 Cooler #: EPASB010 No: 1-040513-111321-0003

Lab: ChemTech Consulting Group
Lab Contact: Divya Mehta
Lab Phone: 908-789-8900

Organic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Inorganic Sample #	For Lab Use Only
A4B05	Water/ START	Grab	CLP PCBs(21), CLP PCBs(21)	33 (4 C), 34 (4 C) (2)	JCW-016	04/03/2013 15:40		-
A4B06	Water/ START	Grab	CLP PCBs(21), CLP PCBs(21)	100 (4 C), 101 (4 C) (2)	JCW-017	04/04/2013 17:00		
A4B07	Water/ START	Grab	CLP PCBs(21), CLP PCBs(21)	*102 (4 C), 103 (4 C) (2)	JCW-018	04/04/2013 17:05		
A4B08	Water/ START	Grab	CLP PCBs(21), CLP PCBs(21)	104 (4 C), 105 (4 C) (2)	JCW-019	04/05/2013 11:30	,	· · · · · · · · · · · · · · · · · · ·
								TOTAL TOPIC INTERPRETATION AND STATE STATE AND AND ASSESSMENT AND ASSESSMENT AND ASSESSMENT ASSESSM
V								
			-					
					· · · · · · · · · · · · · · · · · · ·			
								Arritina y mini ara, Martina Marina di Arritina di Santa Santa Santa Aparella Mattheware a Marina di
	J							
		·					****	

	No service and the service of the se	
		Shipment for Case Complete? N
Special Instructions:		Samples Transferred From Chain of Custody #
		NIA
Analysis Key: CLP PCBs=SOM01.2 Aroclors		

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
Samples	C. Combins	4/5/13	AUSILINO. 5141 2418 0002	4/5/17	1200						>
						Samples	Arsin No. 5141 2418 0662		Palak Shah	41611	95

Recid DG/ESAT

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET FORM DC-2

Jard Company Weston

LABORATORY NA	ME: CHEMTECH CONSULTING GROUP,	INC.			
CITY / STATE :	MOUNTAINSIDE, NJ		·		
CASE NO:	43392 SDG NO:	A4A90			
SDG NOs TO FOL	LOW N/A N/A				
MOD. REF. NO. :	N/A		N/A		
CONTRACT NO:	EPW11030		A	PR 26 204	3
SOW NO:	SOM 01.2				
All documents delive	ered in the Complete SDG File (CSF) must be orig	rinal documents where	nossible		
, 2002	The state of the s		PAGE NOS:	CHE	CK Weston
t. Inventory Sheet (DC-2) (Do not number)	FROM	. TO	LAB	-USEPA
2. SDG Narrative	,	1	- 7		
s. SDG Cover Shee	t/Traffic Report	8	 11		
I. <u>Trace Volatiles D</u>					
a. QC Summar	у				
Deuterate and VOA-	d Monitoring Compound Recovery (Form II VOA- ·2)	1 NA	NA	. —	NA
Matrix Spi	ike/Matrix Spike Duplicate Recover (Form III VOA	,			
	ted by USEPA Region)	NA NA	NA NA		
Method B	lank Summary (Form IV VOA)	NA	<u>NA</u>	·	
GC/MS In	strument Performance Check (Form V VOA)	NA	<u>NA</u>		
Internal S	tandard Area and RT Summary (Form VIII VOA)	NA	<u>NA</u>		
b. Sample Data		NA	<u>NA</u>	***************************************	
and VOA-	ılts - Organics Analysis Data Sheet (Form I VOA- 2)	1		***************************************	
Tentativel	y Identified Compounds (Form I VOA-TIC)				
	ucted total ion chromatograms (RIC) for each sam	ple			
For each	sample:			eminoral maneton consecutorio de la calendario.	
Raw S	pectra and background-subtracted mass spectra	of			
target	compounds identified			Married Williams Annual Control of Control	-
Quanti	tation reports			EPACO O O O O O O O O O O O O O O O O O O	
	Spectra of all reported TICs with three best library		. NIA	STORAGE CHAPTER HOLD STORAGE AND ANALYSIS AND A	
	pata (All Instruments) bration Data (Form VI VOA-1, VOA-2, VOA-3)	<u>NA</u>	<u>NA</u>		
	Quantitaation Reports for all Standards			activación como de amena de acomposições que que en como de acomposições que que en como de acomposições que en co	
	g Calibration Data (Form VII VOA-1, VOA-2, VOA	2)			
	Quantitation Reports for all Standards	-3)		Manufacture and insurance and	
d. Raw/Quality 0				CONTROL AND DESCRIPTION OF THE PARTY OF THE	
BFB	ond of	NA	NA		
Blank Data		NA NA	NA NA		
	e/Matrix Spike Duplicate Data (if requested by	NA NA	NA NA		
USEPA Red		INA	INA		

CASE	NO: 43392	SDG NO: A4A90	SDG NOs	TO FOLLOW:	N/A		
N/A		N/A	MOD. REF	. NO : N/	Α		
e. ·	Trace SIM Data (Pla	ace at the end of the Trac	e Volatiles Section	NA	NA		ν
	IV-VOA-SIM; Fo	f; Form II VOA-SIM1 and \ rm VI VOA-SIM; Form VII \ nd all raw data for QC, Sar	VOA-SIM; Form				
Low	/Med Volatiles Data						
a.	QC Summary						
	Deuterated Mon VOA-2, VOA-3,	itoring Compound Recover VOA-4)	ry (Form II VOA-1,	NA ·	NA		
		trix Spike Duplicate Recov equested by USEPA Regio		NA	NA		
	Method Blank Si	ummary (Form IV VOA)		NA	NA		
	GC/MS Instrume	ent Performance Check (Fo	orm V VOA)	NA	NA		
	Internal Standar	d Area and RT Summary (Form VIII VOA)	NA	NA		
b.	Sample Data			NA	NA		
	TCL Results - O VOA-1 and VOA	rganics Analysis Data She v-2)	et (Form I				
	Tentatively Ident	tified Compounds (Form I	VOA-TIC)		·		
	Reconstructed to	otal ion chromatograms (R	RIC) for each sample				
		le: a and background-subtrac ounds identified	cted mass spectra of				
	Quantitation	n reports					
	Mass Spec matches	tra of all reported TICs with	n three best library				
c.	Standards Data (A	II Instruments		<u>NA</u>	NA		
	Initial Calibration	n Data (Form VI VOA-1, V	OA-2, VOA-3)				
	RICs and Quan	titation Reports for all Stan	ndards	As with			Participation of the Control of the
	Continuing Calil	bration Data (Form VII VO	A-1, VOA-2, VOA-3)			Mary de production de la company de la compa	E-MOZINI AND
	RICs and Quan	titation Reports for all Stan	ndards				
d.	Raw/Quality Cont	rol (QC)Data					
	BFB			NA	NA		
	Blank Data			NA	NA		-
	Matrix Spike/Ma USEPA Region	atrix Spike Duplicate Data	(if requested by	NA ·	NA		

CASE NO: 43392	SDG NO: A4A90	SDG NOs TO F	OLLOW	: N/A	1.1 m 1.1	
N/A	N/A	MOD. REF. NC):	N/A	·	
Semivolatiles Data						
a. QC Summary						
Deuterated Mo SV-2, SV-3, S'	onitoring Compound Recovery (FeV-4)	orm II SV-1,	NA	NA		NA
	latrix Spike Duplicate Recovery S and SV-2) (if requested by USEF		NA	NA		
Method Blank	Summary (Form IV SV)		NA	NA		
GC/MS Instrur	ment Performance Check (Form	V SV)	NA	NA		
Internal Stand and SV-2)	ard Area and RT Summary (Form	n VIII SV-1	NA	NA .		-
b. Sample Data			NA	NA		
TCL Results - SV-2)	Organics Analysis Data Sheet (F	Form I SV-1 and				
Tentatively Ide	entified Compounds (Form I SV-T	TC)				
Reconstructed	I total ion chromatograms (RIC) f	or each sample				
For each sam	ple:		NA	NA NA	- .	
Raw Spect target com	ra and background-subtracted m pounds	ass spectra of				
Quantitatio	n reports					

NA

NΑ

NA

NΑ

NA

NA

NA

NA

NA

e. Raw GPC Data

d. Raw (QC)Data

DFTPP

Blank Data

6.

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Mass Spectra of TiCs with three best library matches

Initial Calibration Data (Form VI SV-1, SV-2, SV-3)

Continuing Calibration Data (Form VII SV-1, S RICs and Quantitation Reports for all Standards

MS/MSD Data (if requested by USEPA Region)

GPC chromatograms (if GPC is r

c. Standards Data (All Instruments)

RICs and Quantitation

HRS Reference #74

CASE NO: 43392 SDG NO: A4A90 SDG NO	Os TO FOLLO	OW: N/A		
N/A N/A MOD. R	EF. NO:	N/A		
Semivolatile SIM Data	NA	NA		N
[Form I SV-SIM; Form II SV-SIM1 and SV-SIM2; Form III-SV-SIM1 and SV-SIM2 (if required; Form IV SV-SIM; Form VI SV-SIM; Form VII SV-SIM1 and SV-SIM2; and all raw data for QC, Samples, and Standards.]				
Pesticides Data				
a. QC Summary				
Surrogate Recovery Summary (Form II PEST-1 and PEST-2)	NA	NA		
Matrix Spike/Matrix Spike Duplicate Recovery Summary (Form III PEST-1 and PEST-2)	NA	NA		
Laboratory Control Sample Recovery (Form III PEST-3 and PEST-4)	NA	<u>NA</u>	Arrayment to the Control Control of Color Control	
Method Blank Summary (Form IV PEST)	NA	NA		
Sample Data	NA	NA		STATE
TCL Results - Organics Analysis Data Sheet (Form I PEST)				
Chromatograms (Primary Column)				
Chromatograms from second GC column confirmation				
GC Integration report or data system printout				
Manual work sheets				
For Pesticides by GC/MS				
Copies of raw spectra and copies of background-subtracted mass spectra of target compounds (samples & standards)	;			
Standards Data	NA	NA		
Initial Calibration of Single Component Analytes (Form VI PEST-1 ar	nd PEST-2)			
Toxaphene Initial Calibration (Form VI PEST-3 and PEST-4)	•		_	
Analyte Resolution Summary (Form VI PEST-5, per column)				
Performance Evaluation Mixture (Form VI PEST-6)			enconnecting companies and Court reprince (CA 1966)	
Individual Standard Mixture A (Form VI PEST-7)				
Individual Standard Mixture B (Form VI PEST-8)				
Individual Standard Mixture C (Form VI PEST-9 and PEST-10)			Entertainment and plant PRESS OF SERVICES	
Calibration Verification Summary (Form VII PEST-1)			Parences in demonstration and accordance	
Calibration Verification Summary (Form VII PEST-2)	•		Process Committee and Associated Association (Committee)	,

CA	SE NO: 43392	SDG NO: A4A	/90	SDG NOs TO FO	DLLO	₩: N	/A		
_N	I/A	N/A		MOD. REF. NO	:	N/A			
	Calibration Verification	on Summary (Form VII F	PEST-3)					2	100
	Calibration Verification	on Summary (Form VII F	PEST-4)				_		
	Analytical Sequence	(Form VIII PEST)					_		
	Florisil Cartridge Che	eck (Form IX PEST-1)							
	Pesticide GPC Calibr	ration (Form IX PEST-2)							
	Identification Summa	ry for Single Componen	t Analytes (Fo	rm X PEST-1)					
	Identification Summa	ry for Toxaphene Form	X PEST-2)						
	Chromatograms and	data system printouts							
	A printout of Ret	ention Times and corres	ponding peak	areas or peak heig	jhts				
d.	Raw QC Data								
	Blank Data			. <u>N</u>	A	. <u>NA</u>			
	Matrix Spike/Matri	ix Spike Duplicate Data		<u>N</u>	A	NA			
	Laboratory Contro	ol Sample		<u>N</u>	A	NA	×		
e.	Raw GPC Data			<u>N</u>	Α	<u>NA</u>	-		
f.	Raw Florisil Data			<u>N</u>	Α	NA			
Ar	oclor Data								
a.	QC Summary	•							
	Surrogate Recove	ery Summary (Form II AF	RO-1 and ARO)-2) <u>1</u>	2	13		<u></u>	
	Matrix Spike/Matri and ARO-2)	x Spike Duplicate Sumr	nary (Form III /	ARO-1 <u>1</u> .	4	15_	CONTRACTOR CONTRACTOR OF THE SECOND OF THE S	<u> </u>	
	Laboratory Contro ARO-4)	l Sample Recovery (Fo	rm III ARO-3 a	nd <u>1</u> 1	3	<u>17</u>			
	Method Blank Sur	mmary (Form IV ARO)			3	19			Managarantan
b.	Sample Data			2) .	91		<u> </u>	. 1
	TCL Results - Org	anics Analysis Data She	eet (Form I AR	O) <u>N</u>	A	<u>NA</u>	······································		
	Chromatograms (I	Primary Column)		. <u>N</u>	A	NA NA	eConstant at automobile person	Christophic Charles Charles Charles	
	Chromatograms fr	rom second GC column	confirmation	<u>N</u>	A	NA	64 Nincontatolomy and		
	GC Integration rep	oort of data system print	out	<u>N</u>	Α	NA			
	Manual work shee	ets		<u>N</u>	Α	NA.	March de de deservantes		
	For Aroclors by Go	C/MS		N	A	NA		_	^

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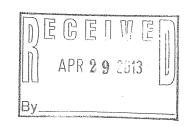
CASE NO: 43392 SDG NO: ` A4A90 SDG NO:	s TO FOLLOV	V: N/A	THE RESIDENCE OF THE PROPERTY	
N/A N/A MOD. RE	F. NO :	N/A	de die The Kalifordion and an and an and an and an an an and an	
Copies of raw spectra and copies of background-subtracted mass spectra of target compounds (samples & standards)	erinte et al estador de la estada estada estada estador estador estador en estador en estador en estador en es			
Standards Data	92	244		***************************************
Aroclors Initial Calibration (Form VI ARO-1,ARO-2, and ARO-3)	Committee of the Commit		-	
Calibration Verification Summary (Form VII ARO-1)			Month of Lindon Laboratory and Commission of	
Analytical Sequence (Form VIII ARO)				1
Identification Summary for Multicomponent Analytes (Form X ARO)				
Chromatograms and data system printouts				
A printout of Retention Times and corresponding peak areas or peak heights			- December 1	Name to the same t
Raw QC Data				
Blank Data	245	274		1
Matrix Spike/Matrix Spike Duplicate Data	275	290		
Laboratory Control Sample (LCS) Data	291	306	<u> </u>	
Raw GPC Data (if performed)	NA	NA		
Miscellaneous Data			. • •	
Original preparation and analysis forms or copies of preparation and analysis logbook pages	307	364		
Internal sample and sample extract transfer chain-of-custody records	395	396		- Personal
Screening records	NA NA	NA		1
All instrument output, including strip charts from screening activities (describe or list)	4.5			
			<u> </u>	
	a, i			
EPA Shipping/Receiving Documents				
Airbills (No. of shipments12)	365	376		
Chain of Custody Records	377	379	-	
Sample Tags	399	408		***************************************
Sample Log-in Sheet (Lab & DC-1)	380	394		

HRS Reference #74

CASE NO: 43392	SDG NO: A4A90	SDG NOs TO	FOLLOW:	N/A		
N/A	N/A	MOD. REF. N	NO: N/	Α		
i. Internal Lab Sample Trai	nsfer Records and Trackin	g Sheets (describe or l	ist)			
Sample Transfer			395	396		
. Other Records (describe	or list)					
Telephone Communi	cation Log		NA	NA		
PE Instruc	ctions		397	398	<u> </u>	
				Security Walter Day Control Description		and the transcent of the second
. Comments						
	A **	11.0	0 1	P 1		1.12-1
ompleted by: (1) (CLP Lab)	(Signatuke)		rinted Nam	e/Title)	9 _ 0	(Date)
	the series of	Him	anshu	Prajage	ah' o	4/25/1
rified by:	(Signature)		cinted Nam	e/Title)		(Date)
edited by:	us. F	John B	ch Tee	hused Ma	N1.667 \$	5/1/13
udited by:	(Signature)		finted Nam		- A	(Date)

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EPA NEW ENGLAND COMPLETE SDG FILE RECEIPT / TRANSFER FORM

Site: Jand Company Inc.

8000-01-61 :dat

Tast: 0850

Case: 43392 SDG: A4A9\$

Receipt Date	Received By : Name	Init.	Affiliation	CSF Activity	Custody Seals Present / Intact	Released To	Date
4 /26 / 13	Doris Guzman		ESAT	Received for Transfer	(Y)N $(Y)N$	WESTON	4/26/13
4/29/13	Tara Lambert	BR	Weston	DV/Archive	YN YN		
					YN YN		
					YNYN		
					YN YN		
·					Y N Y N		
	•				YN YN		
					Y N Y N		
	:				Y N Y N		
					Y N Y N		
					Y N Y N		
] 					YN YN		

EPA-NE - DQO SUMMARY FORM

A separate Form should be completed for each sampling event. Refer to Attachment A for instructions on completing this form, Attachment B for a complete list of the parameter codes and Attachment C for an example of a completed form.

1.	EPA Program: TSCA CERCLA RCRA Other: Projected Date(s) of Sampling Sprin EPA Site Manager Martha Bosworth EPA Case Team Members	Site Name <u>Jard Company Inc</u> Site Location <u>Bennington, Vermont</u> Assigned Site Latitude/Longitude <u>42° 53′ 21.5″ north/73° 11′ 21.9″ west</u> CERCLA Site/Spill Identifier No <u>VTD048141741</u> (Include Operable Unit) Phase: ERA SA/SI pre-RI RI (phase I, etc.) FS RD RA post-RA (circle one) Other: <u>Site Reassessment</u>							
2.	QAPP Title and Revision Date Site Assessment Program Site Specific Quality Assurance Project Plan for Surface and Subsurface Soil/Source, Ground Water, and Sediment Sampling Jard Company Inc, Bennington, Vermont dated 11 January 2013 Approved by: Martha Bosworth Date of Approval: TBD Title of Approving Official: Site Assessment Manager Organization*: EPA *If other than EPA, record date approval authority was delegated: EPA Oversight Project (circle one) Y Type of EPA Oversight (circle one) PRP or FF Other:								
	Confirmatory Analysis for Field Scre Are comparability criteria documente			f EPA Oversigl					
3. a.	Matrix Code ¹	SO	so	so	GW	GW.	SD	SD	SD
b.	Parameter Code ²	PCB Aroclors	PCB Aroclors	PCB Congeners	PCB Aroclors	PCB Congeners	PCB Aroclors	PCB Aroclors	PCB Congeners
c.	Preservation Code ³	5	.5	5	5	5	5	5	5
d.	Analytical Services Mechanism	DAS or CLP	DAS or CLP	CLP	DAS or CLP	DAS or CLP	DAS or CLP	DAS or CLP	CLP
e.	No. of Sample Locations	65	28	2	21	2	60	60	60
	Field QC:	. •							
f.	Field Duplicate Pairs	4	2		2	5	: 5	5	5
g.	Equipment Blanks	See RB	See RB	See RB	See RB	See RB	See RB	See RB	See RB
h.	VOA Trip Blanks	0	0	0	0	0	0	0	0
i.	Cooler Temperature Blanks	l per cooler	1 per cooler	1 per cooler	l per cooler	1 per cooler	l per cooler	1 per cooler	1 per cooler
j.	Bottle Blanks	0	0	0	0	0	0	0	0
k.	Other:								
1.	PES sent to Laboratory	NA	6	TBD	3	TBD	NA	3	TBD
	Laboratory QC:								
m.	Reagent Blank	0	0	0	0	0	0	0	0
n.	Duplicate	0	0 -	0	. 0	0	0	0	0
0.	Matrix Spike	0	2	0	1	0	1	0	0
p.	Matrix Spike Duplicate	. 0	2	0	1	0	1	0	0
q.	Other:								
4.	Site Information Site Dimensions Approximately 11.2 List all potentially contaminated math Range of Doubt to Groundwater Proceedings of Soil Types: Surface Subsurface Of Sediment Types: Stream Pond Est	rices <u>Surface a</u> eater than 5 fee ther:	<u>et</u>)	e soil, sediment		er, and resident			Low

1.	EPA Program: TSCA CERCLA RCRA Other: Projected Date(s) of Sampling Sprin EPA Site Manager Martha Bosworth EPA Case Team Members	Site Name_Jar Site Location_ Assigned Site CERCLA Site. Phase: ERA (circle one) Ot	Bennington, Latitude/Lon /Spill Identif SA/SI pre-RJ	Vermont gitude 42° 5 ier NoVTD0 I RI (phase	48141741 (Inc	lude Operable	Unit)		
2.	QAPP Title and Revision Date <u>Site Ass</u> Water, and Sediment Sampling Jard (Approved by: <u>Martha Bosworth</u> Title of Approving Official: <u>Site Ass</u> *If other than EPA, record date appro EPA Oversight Project (circle one) Confirmatory Analysis for Field Scre	Company Inc, essment Mana val authority Y	Bennington, VDate o ger was delegated:	f Approval: TI	1 January 20 3D Organization ersight (circle	13 n*:_EPA_ e one) PRP o	or FF Other:		· · · · · · · · · · · · · · · · · · ·
	Are comparability criteria documente	d? Ÿ	N		·		1	T	T
3. a. b.	Matrix Code ¹ Parameter Code ²	SS PCB	SS PCB	SS PCB	RB PCB				
		Aroclors	Aroclors	Congeners	Aroclors				<u> </u>
c.	Preservation Code ³	5	5	5	5				
d.	Analytical Services Mechanism	DAS or CLP	DAS or CLP	CLP	CLP Non- RAS				
e.	No. of Sample Locations	125	38	2	21				
	Field QC:								*
f.	Field Duplicate Pairs	7	2		0				
g.	Equipment Blanks	See RB	See RB	See RB	0				
h.	VOA Trip Blanks	0	. 0	0	0				
i.	Cooler Temperature Blanks	1 per cooler	1 per cooler	1 per cooler	1 per cooler				
j.	Bottle Blanks	0	0	0	0				
k.	Other:								
1.	PES sent to Laboratory	NA	6	TBD	0				
	Laboratory QC:								
m.	Reagent Blank	. 0	0	0	0				
n.	Duplicate	0 -	0	0.	0				
0.	Matrix Spike	0	2	0	0 -				
p.	Matrix Spike Duplicate	0	2	0					· ·
q.	Other:		:						
4.	Site Information Site Dimensions <u>Approximately 11.</u> List all potentially contaminated mat Range of Depth to Grundwater Soil Types: Surface Subsurface Of Sediment Types: Stream Pond Est	rices_Surface eater than 5 fe ther:	<u>et</u>)	e soil, sediment,			ntial surface so		Low Low

When m	ultiple matrices will be sampled during a san	npling event, complete Sections 5-10 for	each matrix.		Matrix Code ¹ _SO		
5. Data	Engineering D	tent of Contamination Human and/or H		Assessment	Removal Actions Remediation Alternatives Other:		
			Draft DQO S	ummary Fo	rm 11/96		
6.		ubsurface soil/source samples from the id B Aroclors field screening and fixed base ubmitted for fixed laboratory analysis wit	d laboratory an	alysis in sou	irce areas on the Jard Company Inc		
	Complete Table if applicable						
	COCs	Action Levels		An	alytical Method-Quantitation Limits		
PCB Ar	oclors (Field Screening)	Above Background (Assumed to be N	D)	0.2 mg/K	g		
PCB Ar	oclors (Fixed Lab)	Above Background (Assumed to be N	D)	33 ug/kg			
PCB Co	ngerners	Above Background (Assumed to be N	D)	20 to 100	ng/Kg		
7.	Sampling Method (circle technique) Sampling Procedures (SOP name, No., List Background Sample Locations No. Circle Grab or Composite Thot spots" sampled:	Split Spoon Dredge Trow Rev. #. and date)	et or Spigot	No) Other: 1	Peristaltic Pump Other: Direct sampling		
8.	Field Data (circle) ORP pH		olved O ₂	Temperat	ture Turbidity		
0.		Specific Conductance Dissi		Temperat			
9.	Analytical Methods and Parameters						
	Method title/SOP name	Method/SOP Identification number	Revisio	n Date	Target Parameters (VOA, SV, Pest/PCB, Metals, etc.)		
	PCB Aroclors (Field Screening)	EIA-FLDPCB2.SOP			PCBs		
	PCB Aroclors	SOM01.2 or DAS Equivalent	· · · · · · · · · · · · · · · · · · ·		PCBs		
· · · · · · · · · · · · · · · · · · ·	PCB Congeners	CBC01.0			PCB Congeners		
10.	2. Other	r Approved Validation Criteria:	Guidelines for	Evaluating	Environmental Analyses, Part II, III or IV		
	Validation Tier (circle one) I Company/Organization Performing Da	II Partial Tier III: ta Validation_Weston Solutions, Inc./ST	ART III	Prin	ne or Subcontractor (circle one)		
11.	Company Name Weston Solutions, Inc. Contract Number EP-W-05-042 Contract Name (e.g. START, RACS, etc.) START III Work Assignment No. 20114-081-998-0850 Person Completing Form/Title G. Hornok/Lead Project Scientist Date of DQO Summary Form Completion 11 January 2013						

When m	ultiple matrices will be sampled during a sar	npling event, complete Sections 5-10 for	each matrix.		Matrix Code ¹ _GW
5. Data	Engineering I	stent of Contamination Human and/or			Other:
6.	Summarize DQOs: Collect ground water	r samples from ground water monitoring			
0.	fixed based laboratory analysis. A subs	set of samples will be submitted for PCB	Congener analy	sis.	und off the property for 1 est 1 actions
	Complete Table if applicable				
	Complete Fable if applicable				
	COCs	Action Levels		Ana	alytical Method-Quantitation Limits
PCB Ar	oclors (Fixed Lab)	Above Background (Assumed to be N	ND)	1.0 μg/L	
PCB Cc	ongeners	Above Background (Assumed to be N	ND)	100 to 1,0	00 pg/L
7.	Sampling Method (circle technique) Sampling Procedures (SOP name, No. List Background Sample Locations G Circle Grap or Composite "Hot spots" sampled:	Rev # and date)	method: Yes acet or Spigot wel	Other:	Peristaltic Pump Other:
8.	Field Data (circle) ORP DH	Specific Conductance Dis	solved O2	Temperati	Turbidity
	Other:				
9.	Analytical Methods and Parameters				
	Method title/SOP name	Method/SOP Identification number	Revisio	on Date	Target Parameters (VOA, SV, Pest/PCB, Metals, etc.)
	PCB Aroclors	SOM01.2 or DAS Equivalent			PCBs
	PCB Congeners	CBC01.0			PCB Congeners
10.	Validation Tier (circle one) 2. Other	ion I, EPA-NE Data Validation Function er Approved Validation Criteria: III Partial Tier III: ata Validation_Weston Solutions, Inc./S	:		Environmental Analyses, Part II, III or IV
11.	Company Name_Weston Solutions, Inc. Contract Name (e.g. START, RACS, Person Completing Form/Title_G. Ho	etc.) START III Work Assi	Number_ EP-W- ignment No. <u>20</u> O Summary For	114-081-998	-0850 n_11 January 2013

When m	Matrix Code ¹ _ <u>SD</u>			
5. Data	Engineering D	Assessment PRP Determination tent of Contamination Human and/or E esign Remedial Action Action (quarterly monitoring)	cological Risk Assessme	Removal Actions ent Remediation Alternatives Other:
		•	Draft DQO Summary	Form 11/96
6.	Summarize DQOs: <u>Collect sediment sam</u> analysis. A subset of samples will be su	bmitted for fixed laboratory analysis with	Street for PCB Aroclors a smaller subset submit	field screening and fixed based laboratory ted for PCB Congener analysis.
	Complete Table if applicable			
	COCs	Action Levels		Analytical Method-Quantitation Limits
PCB Ar	oclors (Field Screening)	Above Background (Assumed to be N	D) 0.2 mg	/Kg
РСВ Аг	oclors (Fixed Lab)	Above Background (Assumed to be N	D) 33 ug/	Kg ,
PCB Co	ongerners	Above Background (Assumed to be N	D) 20 to 1	00 ng/Kg
				·
7.	Sampling Method (circle technique)	Bailer Low flow pump (Region I r Positive Displacement Pump Fauc Split Spoon Dredge Trow	et or Spigot	Peristaltic Pump Other: Direct sampling
	Sampling Procedures (SOP name, No., List Background Sample Locations W Circle Grab or Composite "Hot spots" sampled:	Rev. #, and date)_ etalnd area northeast of the Jard Compan No	y Inc property	
8.	Field Data (circle) ORP pH	Specific Conductance Diss	olved O ₂ Tempo	erature Turbidity
	Other:		M	
9.	Analytical Methods and Parameters			
	Method title/SOP name	Method/SOP Identification number	Revision Date	Target Parameters (VOA, SV, Pest/PCB, Metals, etc.)
	PCB Aroclors (Field Screening)	SOM01.2		PCBs
	PCB Aroclors	SOM01.2 or DAS Equivalent		PCBs
	Total Metals (including Hg)	CBC01.0		PCB Congeners
10.	Validation Criteria (circle one) 1. Regi	er Approved Validation Criteria:	al Guidelines for Evaluat	ing Environmental Analyses, Part II, III or
	Validation Tier (circle one) I Company/Organization Performing Da	II Partial Tier III: ata Validation Weston Solutions, Inc./ST	TART III (Prime or Subcontractor (circle one)
11.	Company Name Weston Solutions, Inc.		umber <u>EP-W-05-042</u> gnment No. <u>20114-081</u>	000 0050

When m	ultiple matrices will be sampled during a sar	npling event, complete Sections 5-10 for e	each matrix.		Matrix Code ¹ _SS
5. Data	Engineering I	tent of Contamination Human and/or E	1		Other:
		the state of the s	Draft DQO S	ummary Fo	orm 11/96
5 .	residences for PCB Aroclors field screen samples will be submitted for fixed lab	amples from residential properties downgrening and fixed based laboratory analysis i oratory analysis with a smaller subset subset.	n source areas mitted for PCB	on the Jard Congener	Company Inc property. A subset of analysis.
	Complete Table if applicable			· · · · · · · · · · · · · · · · · · ·	
	COCs	Action Levels		Ar	nalytical Method-Quantitation Limits
CB Arc	oclors (Field Screening)	Above Background (Assumed to be NI	D)	0.2 mg/K	<u> </u>
CB Arc	oclors (Fixed Lab)	Above Background (Assumed to be NI	D)	33 ug/kg	
CB Co	ngerners	Above Background (Assumed to be NI	D)	20 to 100) ng/Kg
-					
-	Sampling Procedures (SOP name, No. List Background Sample Locations R. Circle Grab or Composite "Hot spots" sampled:	Split Spoon Dredge Trow			Other: Direct sampling
•	Field Data (circle) ORP pH	Specific Conductance Disso	olved O ₂	Tempera	ture Turbidity
	Other:				
•	Analytical Methods and Parameters				
	Method title/SOP name	Method/SOP Identification number	Revisio	n Date	Target Parameters (VOA, SV, Pest/PCB, Metals, etc.)
	PCB Aroclors (Field Screening)	SOM01.2			PCBs
	PCB Aroclors	SOM01.2 or DAS Equivalent			PCBs
	Total Metals (including Hg)	CBC01.0			PCB Congeners
0.	Validation Tier (circle one) 2. Other	ion I, EPA-NE Data Validation Functional er Approved Validation Criteria: II III Partial Tier III: ata Validation Weston Solutions, Inc./ST			Environmental Analyses, Part II, III or me or Subcontractor (circle one)
1.	Company Name <u>Weston Solutions, Inc.</u> Contract Name (e.g. START, RACS, 6 Person Completing Form/Title <u>G. Hor</u>		nmber_EP-W-(nment No. 20) Summary Form	114-081-99	

Matrix Codes¹ - Refer to Attachment B, Part I Parameter Codes² - Refer to Attachment B, Part II

K₂Cr₂O₇ Freeze Room Temperature (avoid excessive heat) Other (Specify) Not preserved